

RESTRICTED

**ARMY**

INDEX OF

**AERONAUTICAL  
EQUIPMENT**

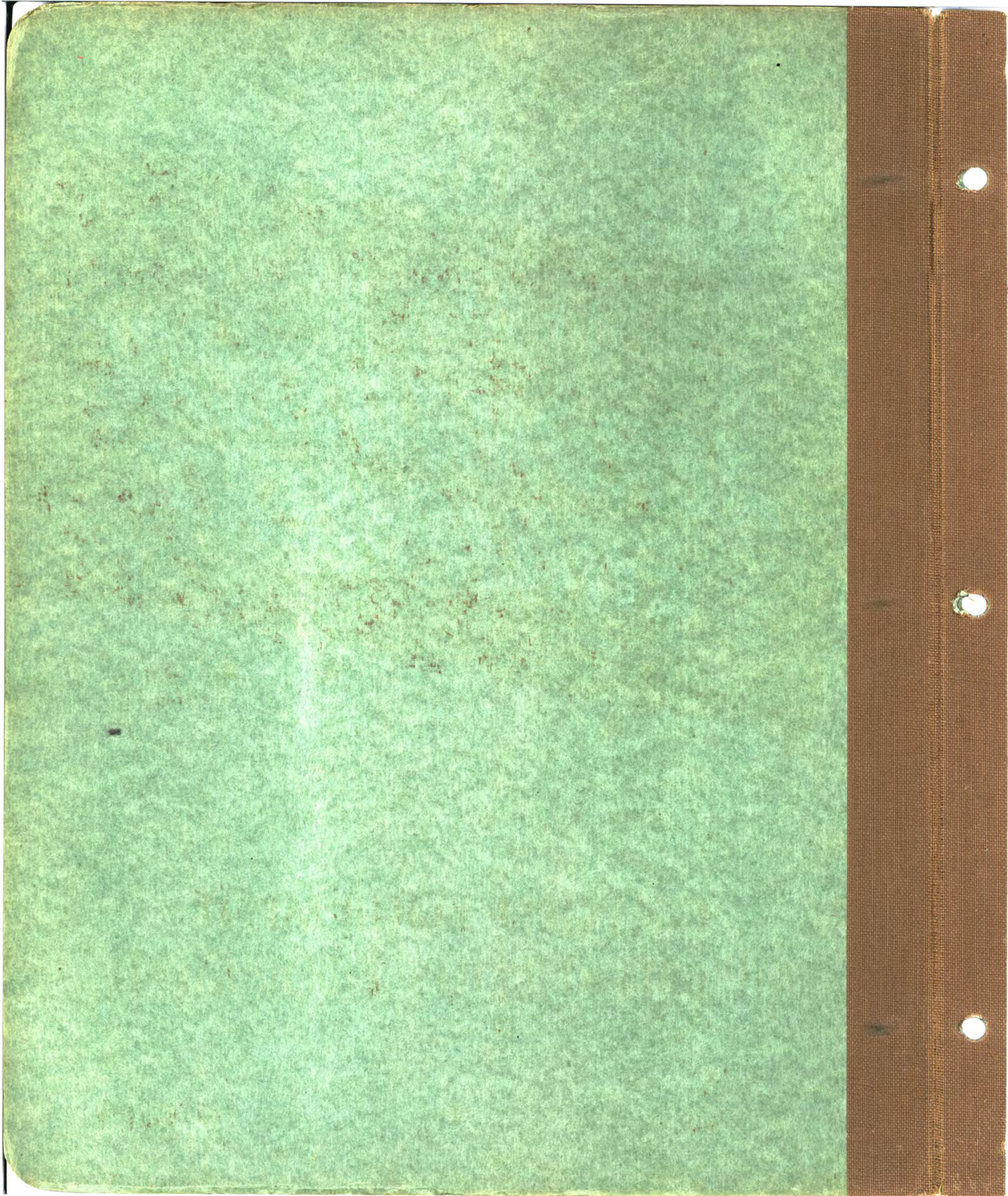
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**OXYGEN EQUIPMENT  
MISCELLANEOUS EQUIPMENT**

VOLUME 3

RESTRICTED





# INDEX OF ARMY AND NAVY AERONAUTICAL EQUIPMENT



## Volume 3

Section 1—Oxygen Equipment

Section 2—Miscellaneous Equipment



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**OXYGEN EQUIPMENT  
MISCELLANEOUS EQUIPMENT**

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Volume Three

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94-40320-B	" "	" " " " " ".....	G-1.....	7
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94-40320-B	" "	Walk around unit—low pressure oxygen	AN6020-1	15
94-40321	" "	Cylinder—low pressure oxygen	G-1	7
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94-40334	" "	Regulator—low pressure automatic continuous flow oxygen	A-11	22
94-40355	" "	Cylinder—low pressure oxygen	D-2	4
94-40356	" "	" " " " " "	F-2	6
94-40357	" "	" " " " " "	G-2	8
94-40376	" "	" " " " walk around	A-4	10
94-40382	" "	Regulator—low pressure demand walk around oxygen	AN6022-1	26
97-900	A. E. Reference	Cap—oxygen blanking		64
97-1810	" "	Adapter—metal nipple coupling		115
97-1880	" "	Coupling—metal outer sleeve		117
97-1950	" "	" " pipe collar		113
97-2300	" "	Economizer—oxygen	Mk II	60
97-3070	" "	Indicator—oxygen flow	Mk II	47
97-3140	" "	" " " " " "	Mk III	48
97-4330	" "	Manifold—oxygen	Mk I	62
97-5380	" "	Nut—union	Mk IV	108
97-5660	" "	Piece—three way connecting	Mk IV E	86
97-5730	" "	" four " "	Mk IV A	91
97-6710	" "	Regulator—high pressure oxygen master	Mk X	37
97-6780	" "	" " " " " "	Mk VIII A*	32
97-6850	" "	" " " " " "	Mk VIII B	33
97-6920	" "	" " " " " "	Mk VIII C	35
97-8110	" "	Socket—bayonet union	Mk III A	65
97-8215	" "	" " " " " "	Mk IV	68
97-9420	" "	Nut—union	Mk I	106
97-9470	" "	Bushing—rubber	Mk I	120
106D/1	British Ref.	Regulator—high pressure continuous flow oxygen	A-6	27
106D/4	" "	Adapter—continuous flow Army oxygen mask to British oxygen outlet	42B13342	42
106D/4	" "	Regulator—high pressure oxygen	Mk VIII A*	31
106D/4	" "	" " " " " "	Mk VIII B	33
106D/4	" "	Socket—bayonet union	Mk III A	65
106D/5	" "	Adapter—continuous flow Army oxygen mask to British oxygen outlet	42B13342	42
106D/5	" "	Regulator—high pressure oxygen	Mk VIII A*	31
106D/5	" "	" " " " " "	Mk VIII B	33
106D/5	" "	Socket—bayonet union	Mk III B	66
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106D/6	" "	Valve—high pressure oxygen master charging or discharging	Mk VIII*	97
106D/7	" "	Cylinder and valve assembly—oxygen 750 liter	Mk VC	16
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106D/7	" "	" " " " " "	Mk V	88
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106D/7	" "	" —two " " "	Mk III A	84
106D/7	" "	Valve—oxygen non-return	Mk I	92
106D/10	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16
106D/11	" "	Piece—two way connecting	Mk III	83
106D/11	" "	" " " " " "	Mk III A	84
106D/12	" "	Nipple—spherical	Mk III	102
106D/13	" "	Connection—blanking		118
106D/13	" "	Nipple—spherical	Mk III	102
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106D/13	" "	" " " " " "	Mk IV A	109
106D/13	" "	Piece—four way connecting	Mk IV A	91
106D/13	" "	three " " "	Mk IV E	86
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106D/14	" "	Nipple—spherical	Mk IV	104
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106D/14	" "	Nut—union	Mk IV	108
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106D/15	" "	Nut—union	Mk IV	108
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106D/18	" "	" " " "	Mk III A	85
106D/18	" "	" " " "	Mk IV E	86
106D/19	" "	" —four " "	Mk III A	90
106D/19	" "	" " " "	Mk IV A	91
106D/21	" "	" —three " "	Mk III A	85
106D/21	" "	" " " "	Mk IV F	87
106D/22	" "	Regulator—high pressure oxygen	Mk VIII A*	32
106D/22	" "	" " " "	Mk VIII B	33
106D/22	" "	Socket—bayonet union	Mk III B	66
106D/24	" "	Economizer—oxygen	Mk II	60
106D/24	" "	Manifold—oxygen	Mk I	62
106D/24	" "	" " " "	Mk I A	63
106D/24	" "	Regulator—high pressure oxygen master	Mk X	38
106D/24	" "	Socket—bayonet union	Mk III C	67
106D/25	" "	Cap—oxygen blanking		64
106D/25	" "	Manifold—oxygen	Mk I	62
106D/25	" "	Regulator—high pressure oxygen master	Mk X	37
106D/26	" "	Indicator—oxygen flow	Mk II	47
106D/26	" "	Regulator—high pressure oxygen	Mk VIII A*	31
106D/26	" "	" " " "	Mk VIII B	33
106D/27	" "	Indicator—oxygen flow	Mk III	48
106D/28	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16
106D/28	" "	Piece—three way connecting	Mk V	88
106D/31	" "	Cap—oxygen blanking		64
106D/31	" "	Manifold—oxygen	Mk I	62
106D/31	" "	" " " "	Mk I A	63
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106D/33	" "	" " " "	A-6	27
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106D/37	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	17
106D/39	" "	Nut—union	Mk III	107
106D/43	" "	Regulator—high pressure continuous flow oxygen	A-6	27
106D/46	" "	" " " oxygen	Mk VIII A*	31
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106D/51	" "	Regulator—high pressure oxygen	Mk VIII C	35
106D/52	" "	Cylinder—high pressure oxygen	B-1	12
106D/54	" "	Adapter—British to Army or Navy oxygen supply union coupling	AN6006-1	127
106D/54	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	11
106D/54	" "	Valve—high pressure oxygen cylinder	Mk VII A*	101
106D/61	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16, 17
106D/61	" "	Piece—three way connecting	Mk V	88
106D/61	" "	Valve—high pressure oxygen cylinder	Mk VII A*	101
106D/62	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16, 17
106D/62	" "	Piece—three way connecting	Mk V	88
106D/63	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16, 17
106D/63	" "	Valve—high pressure oxygen cylinder	Mk VII A*	101
106D/75	" "	Economizer—oxygen	Mk II	60
106D/75	" "	Regulator—high pressure oxygen	Mk VIII A*	32
106D/75	" "	" " " "	Mk VIII C	36
106D/76	" "	Economizer—oxygen	Mk II	60
106D/76	" "	Manifold—oxygen	Mk I A	63
106D/76	" "	Regulator—high pressure oxygen	Mk VIII C	35
106D/76	" "	" " " " master	Mk X	37
106D/76	" "	Tubing—flexible	Mk V	61
106D/76	" "	Valve—oxygen cut-off	Mk I	100
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106D/141	" "	Economizer—oxygen	Mk II	60
106D/141	" "	Regulator—high pressure oxygen	Mk VIII B	33
106D/142	" "	Economizer—oxygen	Mk II	60
106D/142	" "	Manifold—oxygen	Mk I A	63



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106D/143	“ “	Economizer—oxygen	Mk II	60
106D/143	“ “	Manifold—oxygen	Mk I A	63
106D/143	“ “	Regulator—high pressure oxygen master	Mk X	37
106D/144	“ “	Economizer—oxygen	Mk II	60
106D/144	“ “	Regulator—high pressure oxygen	Mk VIII C	35
106D/144	“ “	Socket—bayonet union	Mk IV	68
106D/145	“ “	Adapter—continuous flow Army oxygen mask to British oxygen outlet	42B13342	42
106D/145	“ “	Socket—bayonet union	Mk III C	67
106D/148	“ “	Economizer—oxygen	Mk II	60
106D/148	“ “	Socket—bayonet union	Mk IV	68
106D/148	“ “	Tubing—flexible	Mk V	61
106D/149	“ “	Economizer—oxygen	Mk II	60
106D/149	“ “	Socket—bayonet union	Mk IV	68
106D/149	“ “	Tubing—flexible	Mk V	61
106D/150	“ “	Economizer—oxygen	Mk II	60
106D/150	“ “	Socket—bayonet union	Mk IV	68
106D/150	“ “	Tubing—flexible	Mk V	61
106D/151	“ “	Economizer—oxygen	Mk II	60
106D/151	“ “	Socket—bayonet union	Mk IV	68
106D/151	“ “	Tubing—flexible	Mk V	61
106D/152	“ “	Piece—three way connecting	Mk III A	85
106D/153	“ “	“ “ “ “	Mk III A	85
106D/156	“ “	Connection—blanking	“ “	118
106D/156	“ “	Nipple—spherical	Mk III A	103
106D/156	“ “	“ “	Mk IV A	105
106D/156	“ “	Nut—union	Mk III	107
106D/156	“ “	“ “	Mk IV	108
106D/156	“ “	“ “	Mk IV A	109
106D/156	“ “	Piece—four way connecting	Mk III A	90
106D/156	“ “	“ —three way connecting	Mk III A	85
106D/156	“ “	“ “ “ “	Mk VI	89
106D/156	“ “	“ —two way connecting	Mk III A	84
106D/157	“ “	Nipple—spherical	Mk III	102
106D/157	“ “	“ “	Mk III A	103
106D/157	“ “	Nut—union	Mk IV A	109
106D/158	“ “	Nipple—spherical	Mk IV	104
106D/158	“ “	“ “	Mk IV A	105
106D/158	“ “	Nut—union	Mk IV A	109
106D/160	“ “	Regulator—high pressure oxygen	Mk VIII C	35
106D/161	“ “	Filter—pipe line oxygen	Mk III A	119
106D/162	“ “	“ “ “ “	Mk III A	119
106D/162	“ “	Piece—two way connecting	Mk III	83
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106D/169	“ “	Piece—three way connecting	Mk III A	85
106D/169	“ “	“ “ “ “	Mk IV E	86
106D/169	“ “	“ “ “ “	Mk IV F	87
106D/170	“ “	“ —four way connecting	Mk III A	90
106D/170	“ “	“ “ “ “	Mk IV A	91
106D/189	“ “	Cylinder—low pressure oxygen	D-2	4
106D/191	“ “	Gage—low pressure oxygen pressure	AN6021-1	43
106D/195	“ “	Signal—low pressure oxygen warning	G-1	49
106D/197	“ “	Adapter—Army low pressure to British oxygen supply	42A6950	124
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106D/200	“ “	Regulator—low pressure continuous flow oxygen	A-9	19, 20
106D/225	“ “	Valve—low pressure oxygen tee dual check style D	I style D	74
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106D/229	“ “	Regulator—low pressure diluter demand oxygen	A-12	23
106D/230	“ “	Indicator—oxygen flow	A-1	45
106D/231	“ “	“ “ “ “	AN6029-1	46
106D/480	“ “	Valve—oxygen cut-off	Mk I	100



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128/5107	" "	" —elbow body	Mk I	111
128/5108	" "	Bushing—rubber	Mk I	120
128/5108	" "	Nut—union	Mk I	106
128/5108	" "	Union—elbow body	Mk I	111
128/5108	" "	" —straight body	Mk I	112
128/5108	" "	" —tee body	Mk I	110
128/5109	" "	Bushing—rubber	Mk I	120
128/5109	" "	Nut—union	Mk I	106
128/5109	" "	Union—elbow body	Mk I	111
128/5109	" "	" —straight body	Mk I	112
128/5109	" "	" —tee body	Mk I	110
128/5698	" "	Adapter—metal nipple coupling		115
128/5698	" "	Coupling—metal inner sleeve		116
128/5698	" "	" " nipple		114
128/5698	" "	" " outer sleeve		117
128/5698	" "	" " pipe collar		113
128/5704	" "	" " inner sleeve		116
128/5704	" "	" " nipple		114
128/5704	" "	" " outer sleeve		117
128/5704	" "	" " pipe collar		113
128/5710	" "	Adapter—metal nipple coupling		115
128/5710	" "	Coupling—metal outer sleeve		117
128/5710	" "	" " pipe collar		113
128/5716	" "	" " inner sleeve		116
128/5716	" "	" " nipple		114
128/5716	" "	" " outer sleeve		117
128/5716	" "	" " pipe collar		113
128/5722	" "	Adapter—metal nipple coupling		115
128/5722	" "	Coupling—metal inner sleeve		116
128/5722	" "	" " nipple		114
128/5722	" "	" " outer sleeve		117
128/5722	" "	" " pipe collar		113
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536C-1	" "	" " " " " " " " " " " "	C-1	13
962C	" Type	Regulator—high pressure continuous flow oxygen	A-6	27
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1135-16	N. A. F. Dwg	Cylinder—high pressure oxygen	B-1	12
1275	Mfr's Model	" " " " " " " " " " " "	E-1	14
1500-1	" " and Dwg	Signal—low pressure oxygen warning	G-1	49
1512-1	" Dwg	Cylinder—high pressure oxygen	B-1	12
1512-2	" "	" " " " " " " " " " " "	C-1	13
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1660	" "	Valve—low pressure oxygen filler	AN6024-3	93
1668	" "	" " " " " " " " " " " " straight single check style A	I style A	71
1669	" "	" " " " " " " " " " " " tee dual check style B	I style B	72
2100 cu in.	Navy Type	Cylinder—low pressure oxygen	G-1	7
2139-A	Mfr's Model	Tube—demand mask to regulator	AN6003	51
2155	" Part	Coupling—automatic oxygen	AN6009-1	57
2237	" Dwg	Adapter—Army low pressure to British oxygen supply	42A6950	124
2288	" "	Valve—low pressure oxygen tee dual check style C	I style C	73
2289	" "	" " " " " " " " " " " " D	I style D	74
2291	" "	" " " " " " " " " " " " straight single check style F	I style F	76
2292	" "	" " " " " " " " " " " " G	I style G	77
2460	" "	Recharger—walk around unit	42D7261	53
2460FA	" Part	" " " " " " " " " " " "	42D7261	53
2461	" Dwg	" —turret oxygen cylinder	43B18436	54
2461GW	" Part	" " " " " " " " " " " "	43B18436	54
2801-1A-A1	" Type	Regulator—high pressure continuous flow oxygen	A-6	27
2801-2A-A1	" "	" " " " " " " " " " " "	A-6	27
2802-0	" Dwg	" " " " " " " " " " " "	A-8	28, 29
2802-1B-A1	" Type	" " " " " " " " " " " "	A-8	29
2802-1B-A2	" "	" " " " " " " " " " " "	A-8	28, 29
2802-1C-A2	" "	" " " " " " " " " " " "	A-8	28, 29



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2802-2E-A2	" "	" " " " " "	A-8	28, 29
2803-0	" Dwg	" —low pressure continuous flow oxygen	A-9	19, 20
2803-3A-A1	" Type	" " " " " "	A-9	19, 20
2804-1A-A1	" "	" —high pressure continuous flow oxygen	A-8	28, 29
2805-0	" Dwg	" —low pressure continuous flow oxygen	A-9A	21
2805-3A-A1	" Type	" " " " " "	A-9	19, 20
2805-3B-B1	" "	" " " " " "	A-9A	21
2806-0	" Dwg	" —high pressure continuous flow oxygen	A-8A	30
2806-1B-A1	" Type	" " " " " "	A-8	28
2806-1C-B1	" "	" " " " " "	A-8A	30
2806-1D-B1	" "	" " " " " "	A-8A	30
2850-0	" Dwg	" —low pressure diluter demand oxygen	A-12	24
2850-A1	" Model	" " " " " "	A-12	24
2851-0	" Dwg and Part	" " " " " "	A-12	24
2851-A1	" Model	" " " " " "	A-12	24
2990	" Dwg	Valve—low pressure oxygen cross triple check style E	I style E	75
4331	" "	" " " " " relief	I	98
4336	" "	" —oxygen cut-off	Mk I	100
4340	" "	" —high pressure oxygen straight single check style A	AN6014-1	78
4341	" "	" " " " " tee dual check style B	AN6015-1	79
4342	" "	" " " " " " " " " C	AN6016-1	80
4343	" "	" " " " " " " " " D	AN6017-1	81
4344	" "	" " " " " cross triple check style E	AN6018-1	82
4352	" "	" —low pressure oxygen line		95
4352	" "	" —high pressure oxygen line	AN6012-1	96
4352-2	" Part	" —low pressure oxygen line		95
4353	" Dwg	" " " " " "		95
4353	" "	" —high pressure oxygen line	AN6012-1	96
4354	" "	" " " " " filler	AN6013-1	94
4357	" "	" —oxygen pressure reduction	AN6028-1	99
5530	" "	" —high pressure oxygen filler	AN6013-1	94
5531	" "	" —low pressure oxygen line		95
5531	" "	" —high pressure oxygen line	AN6012-1	96
5532	" "	" —low pressure oxygen line		95
5532	" "	" —high pressure oxygen line	AN6012-1	96
6000	" Part and Dwg	Regulator—low pressure diluter demand oxygen	A-12	24
7491	" Dwg	Valve—high pressure oxygen cylinder	Mk VII A*	101
8590	" " and Model	Connection assembly—demand mask to regulator tube	42B5341	52
9361-B	" Part	Joint—oxygen swivel		56
17876	" Model	Cylinder—high pressure oxygen walk around	A-2	11
22690A	" Part	Coupling—automatic oxygen	AN6009-1	57
23961	" "	Cylinder—high pressure oxygen	C-1	13
24417	" "	" " " " " "	B-1	12
24423	" "	" " " " " "	C-1	13
24449	" Dwg	" and valve assembly—oxygen 750 liter	Mk V C	16, 17
24716	" Model	" —high pressure oxygen walk around	A-2	11
24913	" Dwg	" and valve assembly—oxygen 750 liter	Mk V C	16, 17
25008	" Model	" —high pressure oxygen	E-1	14
25474	" "	" and valve assembly—oxygen 750 liter	Mk V C	17
25476	" Part	" —high pressure oxygen	B-1	12
25477	" "	" " " " " "	C-1	13
25479	" Model	" " " " " "	E-1	14
25661	" "	" and valve assembly—oxygen 750 liter	Mk V C	16, 17
25773	" "	" " " " " 750 "	Mk V C	16
25829	" "	" —high pressure oxygen walk around	A-2	11
25834	" "	" and valve assembly—750 liter	Mk V C	16, 17
40325-A	A. A. F. Spec.	Valve—low pressure oxygen cross triple check style E	I style E	75
40325-A	" "	" " " " " straight single check style A	I style A	71
40325-A	" "	" " " " " " " " " F	I style F	76
40325-A	" "	" " " " " " " " " G	I style G	77
40325-A	" "	" " " " " tee dual check style B	I style B	72
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5500076000	" "	" —Navy to Army oxygen supply union	AN6007-1	125
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Mk I	" "	" —three way connecting	Mk III A	85
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Mk I	" "	" —two way connecting	Mk III A	84
Mk I	" "	Regulator—high pressure oxygen	Mk VIII C	35
Mk I	" "	" " " " master	Mk X	37
Mk I	" "	Socket—bayonet union	Mk IV	68
Mk I	" "	Union—elbow body	Mk I	111
Mk I	" "	" —straight body	Mk I	112
Mk I	" "	" —tee body	Mk I	110



# NUMERICAL INDEX OXYGEN EQUIPMENT SECTION

Number	Number Identification	Used in Connection with	Type, Drawing or Designation	Page
Mk I	British Type	Valve—oxygen cut-off	Mk I	100
Mk I	" "	" " non-return	Mk I	92
Mk I A	" "	Cap—oxygen blanking		64
Mk I A	" "	Economizer—oxygen	Mk II	60
Mk I A	" "	Manifold—oxygen	Mk I A	63
Mk I A	" "	Regulator—high pressure oxygen master	Mk X	37
Mk II	" "	Economizer—oxygen	Mk II	60
Mk II	" "	Indicator—oxygen flow	Mk II	47
Mk II	" "	Manifold—oxygen	Mk I A	63
Mk II	" "	Regulator—high pressure oxygen	Mk VIII A*	31
Mk II	" "	" " " "	Mk VIII B	33
Mk II	" "	" " " "	Mk VIII C	35
Mk II	" "	" " " " master	Mk X	37
Mk II	" "	Tubing—flexible	Mk V	61
Mk II	" "	Valve—oxygen cut-off	Mk I	100
Mk III	" "	Connection—blanking		118
Mk III	" "	Indicator—oxygen flow	Mk III	48
Mk III	" "	Nipple—spherical	Mk III	102
Mk III	" "	Nut—union	Mk III	107
Mk III	" "	" " " "	Mk IV	108
Mk III	" "	Piece—four way connecting	Mk IV A	91
Mk III	" "	Piece—three way connecting	Mk IV E	86
Mk III	" "	" " " "	Mk IV F	87
Mk III	" "	Nut—union	Mk IV A	109
Mk III	" "	Piece—two way connecting	Mk III	83
Mk III	" "	" " " "	Mk III A	84
Mk III A	" "	Filter—pipe line oxygen	Mk III A	119
Mk III A	" "	Nipple—spherical	Mk III	102
Mk III A	" "	" " " "	Mk III A	103
Mk III A	" "	Nut—union	Mk IV	108
Mk III A	" "	" " " "	Mk IV A	109
Mk III A	" "	Piece—four way connecting	Mk III A	90
Mk III A	" "	" " " "	Mk IV A	91
Mk III A	" "	" —three way connecting	Mk III A	85
Mk III A	" "	" " " "	Mk IV E	86
Mk III A	" "	" " " "	Mk IV F	87
Mk III A	" "	" —two way connecting	Mk III	83
Mk III A	" "	" " " "	Mk III A	84
Mk III A	" "	Regulator—high pressure oxygen	Mk VIII A*	31
Mk III A	" "	" " " "	Mk VIII B	33
Mk III A	" "	Socket—bayonet union	Mk III A	65
Mk III A	" "	Valve—oxygen non-return	Mk I	92
Mk III B	" "	Regulator—high pressure oxygen	Mk VIII A*	31
Mk III B	" "	" " " "	Mk VIII B	33
Mk III B	" "	Socket—bayonet union	Mk III B	66
Mk III B	" "	" " " "	" " " "	65
Mk III C	" "	Regulator—high pressure oxygen		31
Mk III C	" "	Socket—bayonet union	Mk III C	67
Mk IV	" "	Connection—blanking		118
Mk IV	" "	Economizer—oxygen	Mk II	60
Mk IV	" "	Nipple—spherical	Mk IV	104
Mk IV	" "	" " " "	Mk IV A	105
Mk IV	" "	Nut—union	Mk III	107
Mk IV	" "	" " " "	Mk IV	108
Mk IV	" "	" " " "	Mk IV	109
Mk IV	" "	Piece—four way connecting	Mk IV A	91
Mk IV	" "	" —three way connecting	Mk VI	89
Mk IV	" "	" " " "	Mk IV E	86
Mk IV	" "	" " " "	Mk IV F	87
Mk IV	" "	Regulator—high pressure oxygen	Mk VIII C	35
Mk IV	" "	Socket—bayonet union	Mk IV	68
Mk IV	" "	Tubing—flexible	Mk V	61
Mk IV	" "	Valve—oxygen cut-off	Mk I	100
Mk IV A	" "	Connection—blanking		118
Mk IV A	" "	Nipple—spherical	Mk III A	103
Mk IV A	" "	" " " "	Mk IV	104
Mk IV A	" "	" " " "	Mk IV A	105



## NUMERICAL INDEX OXYGEN EQUIPMENT SECTION

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Mk IV A	British Type	Nut—union	Mk III	107
Mk IV A	" "	" "	Mk IV	108
Mk IV A	" "	" "	Mk IV A	109
Mk IV A	" "	Piece—four way connecting	Mk III A	90
Mk IV A	" "	" " " "	Mk IV A	91
Mk IV A	" "	" —three way connecting	Mk III A	85
Mk IV A	" "	" " " "	Mk VI	89
Mk IV A	" "	" —two way connecting	Mk III A	84
Mk IV E	" "	" —three way connecting	Mk III A	85
Mk IV E	" "	" " " "	Mk IV E	86
Mk IV F	" "	" " " "	Mk III A	85
Mk IV F	" "	" " " "	Mk IV F	87
Mk IV G	" "	" " " "	Mk III A	85
Mk IV H	" "	" " " "	Mk III A	85
Mk V	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16, 17
Mk V	" "	Economizer—oxygen	Mk II	60
Mk V	" "	Piece—three way connecting	Mk V	88
Mk V	" "	Socket—bayonet union	Mk IV	68
Mk V	" "	Tubing—flexible	Mk V	61
Mk V	" "	Valve—oxygen non-return	Mk I	92
Mk V C	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16, 17
Mk V C	" "	Piece—three way connecting	Mk V	88
Mk V C	" "	Valve—high pressure oxygen cylinder	Mk VII A*	101
Mk VI	" "	Piece—three way connecting	Mk VI	89
Mk VII A	" "	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16, 17
Mk VII A*	" "	Valve—high pressure oxygen cylinder	Mk VII A*	101
Mk VIII*	" "	" " " " master charging or discharging		97
Mk VIII A*	" "	Regulator—high pressure oxygen	Mk VIII C	35
Mk VIII A*	" "	" " " "	Mk VIII A*	31
Mk VIII A*	" "	" " " "	Mk VIII B	33
Mk VIII A*	" "	Socket—bayonet union	Mk III B	66
Mk VIII B	" "	Regulator—high pressure oxygen	Mk VIII A*	31
Mk VIII B	" "	" " " "	Mk VIII B	33, 34
Mk VIII B	" "	Socket—bayonet union	Mk III B	66
Mk VIII C	" "	Economizer—oxygen	Mk II	60
Mk VIII C	" "	Regulator—high pressure oxygen	Mk VIII C	35, 36
Mk VIII C	" "	" " " "	Mk VIII A*	32
Mk VIII D	" "	Economizer—oxygen	Mk II	60
Mk VIII D	" "	Regulator—high pressure oxygen	Mk VIII B	33
Mk VIII D	" "	" " " "	Mk VIII C	35
Mk X	" "	Economizer—oxygen	Mk II	60
Mk X	" "	Manifold—oxygen	Mk I	62
Mk X	" "	" " " "	Mk I A	63
Mk X	" "	Regulator—high pressure oxygen master	Mk X	37, 38
Mk X	" "	Socket—bayonet union	Mk III C	67
Mk X A	" "	Economizer—oxygen	Mk II	60
Mk X A	" "	Manifold—oxygen	Mk I A	63
Mk X A	" "	Socket—bayonet union	Mk III C	67
PA	Army Type	Signal—high pressure oxygen warning	AN6019-1	50
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PB-10878	Mfr's Part	Regulator—high pressure continuous flow oxygen	A-6	27
PB-21154	" "	" " " " " "	A-8	28, 29
PB-21154	" "	" —low pressure continuous flow oxygen	A-9	19, 20
POH-8481	" Model	Tube—demand mask to regulator	AN6003	51
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S.I.S. 573	British Air Min. Dwg	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16, 17
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S.I.S. 589	" " " "	" " " "	Mk VIII C	36
S.I.S. 590	" " " Dwg	Socket—bayonet union	Mk III A	65
S.I.S. 590	" " " "	" " " "	Mk III B	66
S.I.S. 590	" " " "	" " " "	Mk III C	67
S.I.S. 597	" " " "	Piece—four way connecting	Mk IV A	91
S.I.S. 597	" " " "	" —three way connecting	Mk IV E	86
S.I.S. 597	" " " "	" —three way connecting	Mk IV F	87
S.I.S. 598	" " " "	Regulator—high pressure oxygen	Mk VIII A*	32
S.I.S. 598	" " " "	Valve—high pressure oxygen master charging or discharging	Mk VIII*	97
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S.I.S. 2603	“ “ “ “	“ “ “ “	Mk III	48
S.I.S. 2604	“ “ “ “	Regulator—high pressure oxygen master	Mk X	38
S.I.S. 2605	“ “ “ “	Filter—pipe line oxygen	Mk III A	119
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S.I.S. 2608	“ “ “ “	Socket—bayonet union	Mk IV	68
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SK1998	“ Part	Joint—oxygen swivel		55
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W6412/1	“ “ “ “	Piece—three way connecting	Mk IV E	86
W6413/1	“ “ “ “	“ —four way connecting	Mk IV A	91
W6640	“ “ “ “	Regulator—high pressure oxygen	Mk VIII A*	32
W6640	“ “ “ “	“ “ “ “	Mk VIII C	36
W6640	“ “ “ “	“ “ “ “	Mk VIII B	34
W7937	“ “ “ “	Indicator—oxygen flow	Mk II	47
W7946	“ “ “ “	“ “ “ “	Mk III	48
W8094	“ “ “ “	Filter—pipe line oxygen	Mk III A	119
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W8256	“ “ “ “	Socket—bayonet union	Mk IV	68
W8304	“ “ “ “	Tubing—flexible	Mk V	61
W8645	“ “ “ “	Cylinder and valve assembly—oxygen 750 liter	Mk V C	16, 17
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Z7025	“ “ “ “	Valve—high pressure oxygen cylinder	Mk VII A*	101
Z7497	“ “ “ “	Piece—three way connecting	Mk IV F	87
Z7658	“ “ “ “	Valve—high pressure oxygen master charging or discharging	Mk VIII*	97
Z7660	“ “ “ “	Piece—three way connecting	Mk V	88
Z7770	“ “ “ “	Connection—blanking		118
Z7854	“ “ “ “	Cap—oxygen blanking		64
Z7855	“ “ “ “	Piece—three way connecting	Mk VI	89
Z7863	“ “ “ “	Nut—union	Mk IV	108
Z7864	“ “ “ “	Nipple—spherical	Mk IV	104
Z7892	“ “ “ “	Valve—oxygen non-return	Mk I	92
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Z8206	“ “ “ “	Nut—union	Mk IV A	109
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Z9085	“ “ “ “	“ —four way connecting	Mk III A	90



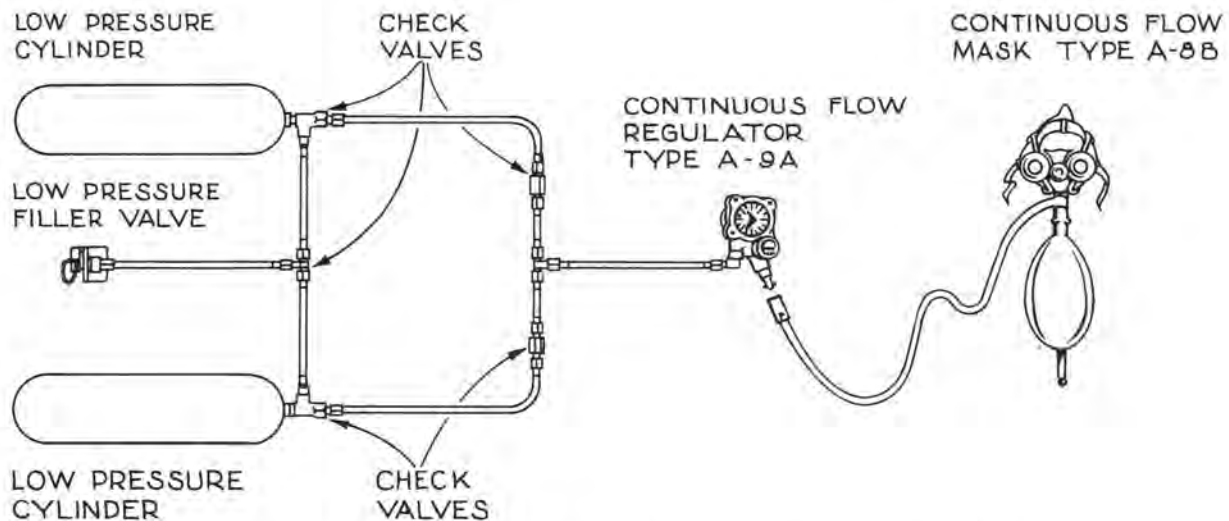


## OXYGEN EQUIPMENT

High altitude flying required development of special equipment to dispense breathing oxygen to flight personnel. Since air is less dense at high altitudes, a region is reached where the amount of oxygen normally present in the atmosphere is not sufficient to sustain proper functioning of the human body. In order to maintain the efficiency required to operate a modern airplane at high altitudes, the oxygen present in the atmosphere must be supplemented by oxygen from another source.

There are two systems of gaseous oxygen equipment installed in modern Army airplanes: low pressure continuous flow systems and low pressure demand systems. The low pressure continuous flow systems are being superseded by the low pressure demand systems.

A typical low pressure continuous flow system is shown in the accompanying illustration.



LOW PRESSURE CONTINUOUS FLOW OXYGEN SYSTEM

All low pressure cylinders are manifolded together and recharged through a common filler valve which is installed in the skin of the airplane. Check valves are fitted in the tubing leading from the cylinder to the continuous flow regulator, to prevent excessive loss of oxygen should a cylinder or a portion of the tubing be destroyed by gun fire. Oxygen cylinders are usually installed in the wings or fuselage.

Regulators are mounted at each crew station. When oxygen is needed, the bayonet fitting on the end of the continuous flow mask tube is connected to the bayonet nipple of the regulator. Continuous flow of oxygen is provided by turning the knob of the flow indicator to the altitude mark at which flight is anticipated. The regulator pressure gage indicates the supply of oxygen available in the cylinders.

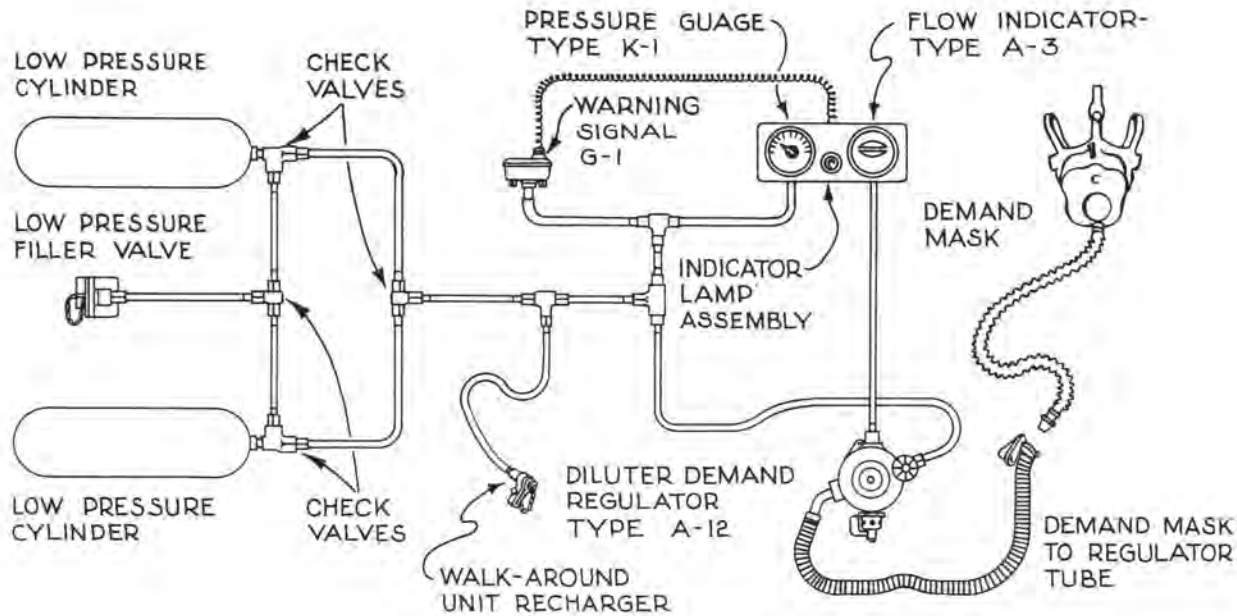
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# OXYGEN EQUIPMENT

(Continued)

A typical low pressure demand system is shown in the following illustration.



LOW PRESSURE DEMAND OXYGEN SYSTEM

In the above illustration, the check valves are fitted in the tubing leading from the cylinders to the diluter demand regulator, to prevent excessive loss of oxygen should a cylinder or a portion of the tubing be destroyed by gun fire. A diluter demand regulator, walk around unit recharger, and a panel mounting containing a flow indicator, pressure signal warning lamp and pressure gage are mounted at each crew station. When oxygen is needed, the demand mask to regulator tube is connected to the demand mask hose. Inhalation opens a valve in the diluter demand regulator which causes a mixture of air and oxygen to be released to the mask. The flow indicator in the mounting panel "blinks" each time oxygen flows to the demand mask. The pressure gage mounted in the panel registers the oxygen supply available in the cylinders, and the pressure signal lights the warning signal lamp when the supply becomes dangerously low. A walk around unit recharger is provided at each station.

British oxygen equipment procured for installation on airplanes built in this country for the Royal Air Force has been catalogued here. The use of British equipment was a temporary measure until Army equipment was developed to a degree acceptable to the Royal Air Force.



## OXYGEN CYLINDERS

Aircraft oxygen cylinders are used for storing compressed oxygen and are of two types; high-pressure cylinders, which have a working pressure of approximately 1800 pounds per square inch, and low-pressure cylinders, which have a working pressure of approximately 400 pounds per square inch. The standard oxygen system used by the Army Air Forces is low-pressure. The Army at one time used a high-pressure system, but this is no longer standard. The U. S. Navy and the Royal Air Force use high-pressure systems.

In order to withstand their pressures, high-pressure cylinders are made of heavy gage high grade steel. To make these cylinders shatterproof under gunfire, these cylinders are now wire wound. When hit by gunfire, the steel around the hole burns with an extremely hot flame, so, special mounting brackets must be used to prevent a rocketing effect. High-pressure cylinders are painted green, fitted with discharge valves, and must be removed from the airplane to be recharged. The discharge valve outlet of an Army high-pressure cylinder has a 0.903-14NS-3 thread, while the Navy high-pressure cylinders had a 0.906 U. S. form thread; now both have standardized on a 0.903-14NS-3 thread.

Low-pressure cylinders are made of light gage high grade steel, with horizontal and vertical reinforcing bands welded on the outside to make them shatterproof. Low-pressure cylinders made of low-alloy steel without steel band reinforcements have recently been developed, and are being procured. These cylinders are all painted yellow, with the exception of the Army type A-4 low-pressure oxygen portable cylinder (A. E. Reference Number 46-900), which is painted green. Valves are not fitted to these cylinders, as they are connected together and recharged through a common filler valve in the skin of the airplane. Low-pressure cylinders, when hit, show no tendency to burn, do not explode, have only a slight tendency to rocket and consequently do not require special mounting brackets.

There are three types of cylinder installations: fixed, walk around, and portable. In a fixed installation, the cylinders are fastened to the fuselage and have lines running to various fixed positions in the airplane, such as the pilot's compartment, navigator's or gunner's stations, etc. A walk around installation supplements fixed installations in that it is small enough to be carried around to positions in the plane not serviced by the fixed installation lines. A portable installation is self contained and is used to provide oxygen to extra passengers who have not been provided for in the fixed installation, or to provide temporary oxygen facilities in planes that have no fixed installation.

The arrangement of fixed cylinder installations depends upon the type of airplane, the number of cylinders used, and the number of users. High-pressure installations use a  $\frac{3}{16}$  inch outside diameter 0.032 wall copper tubing, while low-pressure installations use a  $\frac{5}{16}$  inch outside diameter 0.032 wall aluminum alloy tubing. Check valves are used at every point where they will prevent the loss of oxygen in the event any one cylinder or line is hit by gunfire.



**CYLINDER—LOW PRESSURE OXYGEN**

**ARMY TYPE D-2**

**NAVY TYPE 500 CUBIC INCH**

NAMES: Low pressure oxygen cylinder  
Bottle—oxygen  
Cylinder—Oxygen

Oxygen bottle  
Oxygen cylinder  
D-2 cylinder

**CHARACTERISTICS:**

Internal volume .....	approximately 500 cubic inches
Rated oxygen capacity .....	approximately 6 $\frac{3}{10}$ cubic feet
Dimensions .....	approximately 5 $\frac{3}{4}$ inches diameter by 23 $\frac{1}{2}$ inches long
Weight .....	approximately 4 $\frac{1}{2}$ pounds
Spuds .....	$\frac{1}{4}$ inch standard internal pipe threads.

**ARMY**

A. E. REFERENCE NUMBER: 46-1100

**SPECIFICATIONS:**

General .....	94-40320-B
Detail .....	94-40355

TYPE DESIGNATION: D-2

A. S. C. STOCK NUMBER: 5500344020

TECHNICAL ORDER NUMBER: 03-50-8 and 03-50-9

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipping weight 5 $\frac{1}{2}$  pounds. Shipped as a complete unit, with end spuds plugged.

**NAVY**

TYPE DESIGNATION: 500 cubic inch

PROCUREMENT STATUS: On airplanes procured from Army.

**BRITISH**

AMERICAN STORES REFERENCE NUMBER: 106D/189



### CYLINDER—LOW PRESSURE OXYGEN

ARMY TYPE F-1

NAVY—SEE BELOW

NAMES: Low pressure oxygen cylinder  
Cylinder—oxygen  
Oxygen cylinder

Oxygen bottle  
F-1 cylinder

CHARACTERISTICS:

Internal volume.....	approximately 1000 cubic inches
Rated oxygen capacity.....	approximately 13.8 cubic feet
Dimensions.....	approximately 10 <sup>1</sup> / <sub>8</sub> inches diameter by 17 <sup>1</sup> / <sub>2</sub> inches long
Weight.....	approximately 9 pounds
End spuds have <sup>1</sup> / <sub>4</sub> inch standard internal pipe threads.	

#### ARMY

A. E. REFERENCE NUMBER: 46-1200

SPECIFICATIONS:

General.....	94-40320-B
Detail.....	94-40330

TYPE DESIGNATION: F-1

A. S. C. STOCK NUMBER: 5500345100

TECHNICAL ORDER NUMBER: 03-50-8 and 03-50-9

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipping weight: approximately 11<sup>1</sup>/<sub>4</sub> pounds.  
Shipped as a complete unit with end spuds plugged.

#### NAVY

PROCUREMENT STATUS: On airplanes procured from Army.

#### BRITISH

AMERICAN STORES REFERENCE NUMBER: 106D/166



## **CYLINDER — LOW PRESSURE OXYGEN**

### **ARMY TYPE F-2**

NAMES: Low pressure oxygen cylinder	Oxygen bottle
Cylinder—oxygen	F-2 cylinder
Oxygen cylinder	

**CHARACTERISTICS:**

Internal volume .....	approximately 1000 cubic inches
Rated oxygen capacity .....	approximately 13 1/5 cubic feet
Dimensions .....	approximately 5 3/4 inches diameter by 44 1/2 inches long
Weight .....	approximately 9 pounds
Spuds .....	1/4 inch standard internal pipe threads.

### **ARMY**

A. E. REFERENCE NUMBER: 46-1210

**SPECIFICATIONS:**

General .....	94-40320-B
Detail .....	94-40356

TYPE DESIGNATION: F-2

A. S. C. STOCK NUMBER: 5500345120

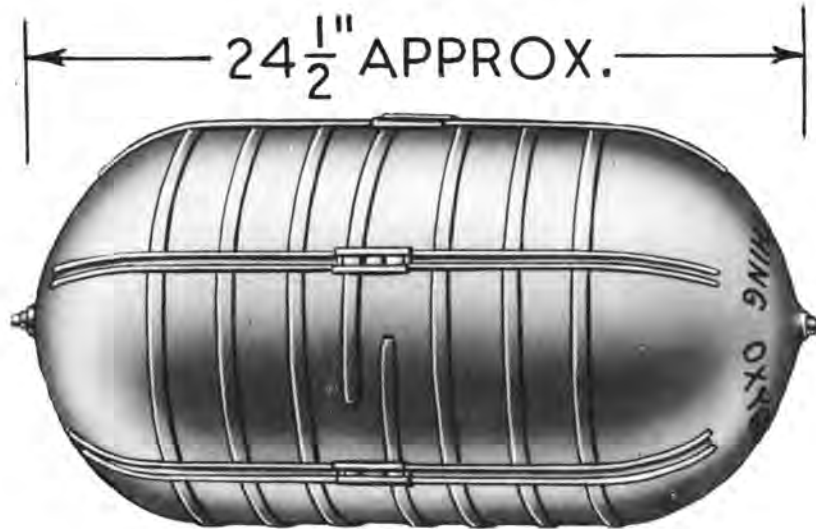
TECHNICAL ORDER NUMBER: 03-50-9

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit with end spuds plugged.

### **NAVY**

PROCUREMENT STATUS: There is no Navy equivalent for this item.



### CYLINDER — LOW PRESSURE OXYGEN

ARMY TYPE G-1

NAVY TYPE 2100 CUBIC INCH

NAMES: Low pressure oxygen cylinder  
Bottle—oxygen  
Cylinder—oxygen  
Oxygen cylinder

Cylinder  
Oxygen bottle  
G-1 cylinder

CHARACTERISTICS:

Internal volume.....	approximately 2100 cubic inches
Rated oxygen capacity.....	approximately 29 cubic feet
Dimensions.....	approximately 12 <sup>9</sup> / <sub>16</sub> inches diameter by 24 <sup>1</sup> / <sub>2</sub> inches long
Weight.....	approximately 18 pounds
Spuds.....	1/4 inch standard internal pipe threads.

#### ARMY

A. E. REFERENCE NUMBER: 46-1250

SPECIFICATIONS:

General.....	94-40320-B
Detail.....	94-40321

TYPE DESIGNATION: G-1

A. S. C. STOCK NUMBER: 5500345230

TECHNICAL ORDER NUMBER: 03-50-8 and 03-50-9

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipping weight approximately 19 pounds. Shipped as a complete unit, with end spuds plugged.

#### NAVY

TYPE DESIGNATION: 2100 cubic inch

PROCUREMENT STATUS: On Navy airplanes procured from Army.

#### BRITISH

AMERICAN STORES REFERENCE NUMBER: 106D/165



## CYLINDER—LOW PRESSURE OXYGEN

### ARMY TYPE G-2

NAMES: Low pressure oxygen cylinder	Oxygen bottle
Cylinder—oxygen	G-2 cylinder
Oxygen cylinder	

**CHARACTERISTICS:**

Internal volume.....	approximately 2000 cubic inches
Rated oxygen capacity.....	approximately 27 3/8 cubic feet
Dimensions.....	approximately 5 3/4 inches diameter by 86 1/2 inches long
Weight.....	approximately 18 pounds
Spuds.....	1/4 inch standard internal pipe threads

### ARMY

A. E. REFERENCE NUMBER: 46-1260

**SPECIFICATIONS:**

General.....	94-40320-B
Detail.....	94-40357

TYPE DESIGNATION: G-2

A. S. C. STOCK NUMBER: 5500345250

TECHNICAL ORDER NUMBER: 03-50-9

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit, with end spuds plugged.

### NAVY

PROCUREMENT STATUS: There is no Navy equivalent for this item.





## CYLINDER—LOW PRESSURE OXYGEN

ARMY TYPE J-1

NAVY—SEE BELOW

NAMES: Low pressure oxygen cylinder  
Cylinder—oxygen  
Oxygen cylinder

Oxygen bottle  
Cylinder  
J-1 cylinder

**CHARACTERISTICS:**

Internal volume . . . . .	approximately 18,000 cubic inches
Rated oxygen capacity . . . . .	approximately 252 cubic feet
Dimensions . . . . .	approximately 24½ inches diameter by 49¼ inches long
Weight . . . . .	approximately 115 pounds
Spuds . . . . .	¼ inch standard internal pipe threads

### ARMY

A. E. REFERENCE NUMBER: 46-1275

**SPECIFICATIONS:**

General . . . . .	94-40320-B
Detail . . . . .	40407

TYPE DESIGNATION: J-1

A. S. C. STOCK NUMBER: 5500345500

TECHNICAL ORDER NUMBER: 03-50-9

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit, with end spuds plugged.

### NAVY

PROCUREMENT STATUS: On airplanes procured from Army.



← 7 5/8" APPROX. →

### CYLINDER—LOW PRESSURE OXYGEN WALK AROUND

ARMY TYPE A-4      NAVY—SEE BELOW

NAMES: Low pressure oxygen walk around cylinder	Oxygen cylinder
Cylinder—oxygen	Walk around cylinder
Cylinder—walk around	A-4 cylinder
Cylinder assembly—oxygen	

DESCRIPTION: This low pressure oxygen walk around cylinder is the cylinder of the low pressure oxygen walk around unit. This cylinder is painted green, instead of yellow like other low pressure cylinders, and has but one outlet spud.

CHARACTERISTICS:

Internal volume .....	approximately 104 cubic inches
Rated oxygen capacity .....	approximately 1 2/5 cubic feet
Dimensions .....	approximately 5 1/4 inches diameter by 7 5/8 inches long
Weight .....	approximately 1 1/2 pounds
Spud .....	1/4 inch standard internal pipe thread

RELATIONSHIP OF PARTS: Used with low pressure demand walk around oxygen regulator, Army type A-13, A. E. Reference Number 46-2050, to make the AN6020 low pressure oxygen walk around unit, A. E. Reference Number 46-725.

#### ARMY

A. E. REFERENCE NUMBER: 46-900

SPECIFICATIONS:

General .....	94-40320-B
Detail .....	94-40376

TYPE DESIGNATION: A-4

A. S. C. STOCK NUMBER: 5500358130

TECHNICAL ORDER NUMBER: 03-50-8 and 03-50-9

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped by manufacturer to manufacturer of low pressure demand walk around oxygen regulator, Army type A-13, A. E. Reference Number 46-2050, who assembles them and ships as low pressure oxygen walk around unit, A. E. Reference Number 46-725.

#### NAVY

PROCUREMENT STATUS: On airplanes procured from Army.















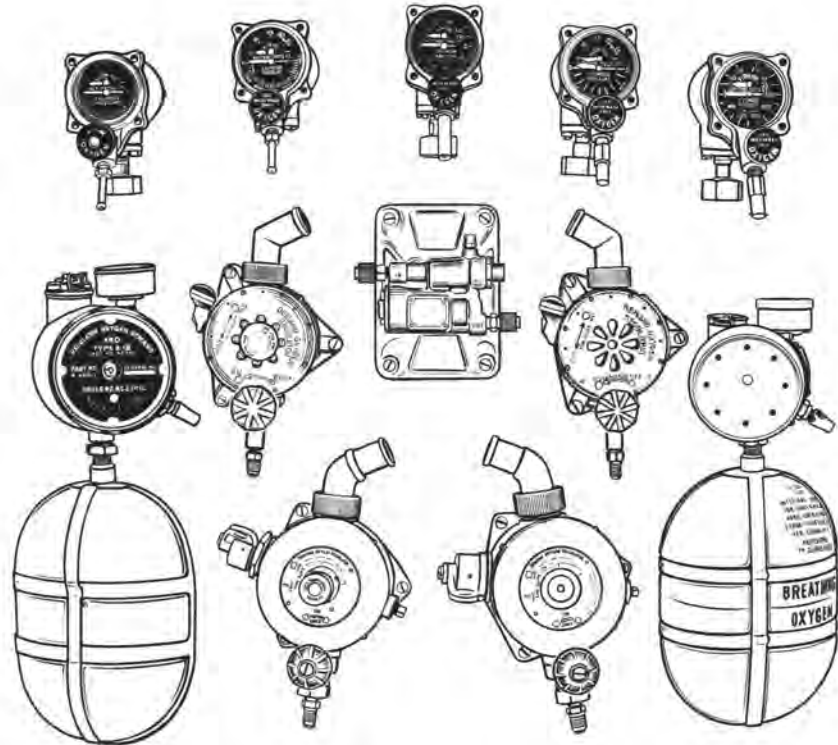




### OXYGEN REGULATORS

Oxygen regulators reduce the pressure of the compressed oxygen flowing from the storage cylinders to a usable pressure, and accurately control its flow to the mask. In general, each regulator supplies oxygen for one person only. There are two general types: continuous flow regulators and diluter demand regulators. Continuous flow regulators were the first type to be developed, and, as the Army was using high pressure cylinders at the time, the first regulators were high pressure continuous flow. When the Army changed to low pressure cylinders, the continuous flow system was still in use, so that the regulators developed were low pressure continuous flow. When the Army changed to the diluter demand type system, low pressure cylinders were in use, so that the regulators used were low pressure diluter demand. The Army has never had a high pressure diluter demand regulator, while the Royal Air Force uses what are essentially high pressure continuous flow regulators.

A continuous flow regulator is a hand controlled delivery valve which will dispense oxygen at a predetermined constant rate, regardless of the momentary physiological needs of the user. The manually operated control valve has a flow indication dial, graduated in thousands of feet. Setting the flow indicator to the altitude at which the airplane is or will be flying provides a flow of oxygen sufficient for the user's normal requirements, except for high breathing rates. A pressure gage is incorporated in the regulator to show the supply of oxygen remaining in the cylinders. Only continuous flow



type masks can be used with continuous flow regulators. The mask is connected directly to the regulator outlet.

A diluter demand type regulator is essentially a suction-operated valve which releases oxygen upon inhalation. This type regulator automatically mixes varying quantities of air and oxygen, the ratio depending upon the needs of the altitude, and delivers the quantity demanded upon inhalation; above 30,000 feet pure oxygen is released. This regulator supplies as much oxygen as demanded by the momentary physiological needs of the user; that is, the greater the rate of respiration, the greater the amount of oxygen supplied. The diluter demand type regulator incorporates neither a pressure gage nor a flow indicator; these instruments are auxiliary equipment in a demand system and are mounted on a special panel at each station. Only demand type masks can be used with diluter demand type regulators. The mask is connected to a hose, which, in turn, is connected to the regulator outlet.



**REGULATOR—LOW PRESSURE CONTINUOUS FLOW OXYGEN**  
**ARMY TYPE A-9**

NAMES: Low pressure continuous flow oxygen regulator      Regulator—oxygen  
Oxygen regulator      A-9 regulator  
Regulator—free flow

DESCRIPTION: The type A-9 low pressure continuous flow oxygen regulator is designed for use with low pressure cylinders not exceeding 500 pounds per square inch. The dial of the pressure gage has been changed accordingly. This regulator incorporates a straight plain outlet nipple. As continuous flow oxygen masks, Army type A-8 series, incorporate a bayonet fitting on the hose end, low pressure continuous flow oxygen regulator, A. E. Reference Number 46-2155, is preferred.

CHARACTERISTICS:

Dimensions . . . . . approximately 2<sup>3</sup>/<sub>8</sub> inches wide by 4<sup>1</sup>/<sub>2</sub> inches high by 4<sup>5</sup>/<sub>8</sub> inches deep  
Weight . . . . . approximately 2 pounds  
Pressure range . . . . . 0 to 500 pounds per square inch  
Altitude range . . . . . 0 to 35,000 feet

**ARMY**

A. E. REFERENCE NUMBER: 46-2150

SPECIFICATIONS:

Detail . . . . . 94-40319

TYPE DESIGNATION: A-9

A. S. C. STOCK NUMBER: Refer to column 5 of the chart.

TECHNICAL ORDER NUMBER: Refer to column 6 of the chart.

PRODUCTION STATUS: Not under procurement for initial installation because of Army change to demand type system.

SHIPPING DATA: Shipped complete with inlet fittings, cone, Army part number 36A2171 and nut, Army part number 041710.

**NAVY**

There is no Navy equivalent for the Army item.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
**Models are used in services as noted in column 4**  
**A-Army, N-Navy, B-British, C-Commercial**

Manufacturer	Manufacturer's Type Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	American Stores Reference Number	Remarks
Pioneer Instrument Division of Bendix Aviation Corp.	2803-3A-A1	2803-0	A-B	5500721100	03-50A-1	106D/200	
	2805-3A-A1	2805-0	A-B	5500721110		106D/44	*

\*Interchangeability may be effected by removing bayonet outlet fitting, Army drawing number 4182987, and substituting straight plain nipple, Pioneer part number PB-21154 (A. S. C. stock number 5500589030).



# REGULATORS OXYGEN EQUIPMENT SECTION



## REGULATOR—LOW PRESSURE CONTINUOUS FLOW OXYGEN ARMY TYPE A-9

**NAMES:** Low pressure continuous flow oxygen regulator      Regulator—oxygen with fitting 41B2987  
Oxygen regulator      A-9 regulator  
Regulator—free flow

**DESCRIPTION:** This Army type A-9 low pressure continuous flow oxygen regulator is the same as the low pressure continuous flow oxygen regulator, A. E. Reference Number 46-2150, except that it incorporates a bayonet type outlet nipple assembly. As continuous flow oxygen masks, Army type A-8 series, incorporate a bayonet fitting on the hose end, this low pressure continuous flow oxygen regulator is preferred to A. E. Reference Number 46-2150.

**CHARACTERISTICS:**

- Dimensions . . . . . approximately 2 $\frac{3}{8}$  inches wide by 4 $\frac{1}{2}$  inches high by 4 $\frac{3}{4}$  inches deep
- Weight . . . . . approximately 2 pounds
- Pressure range . . . . . 0 to 500 pounds per square inch
- Altitude range . . . . . 0 to 35,000 feet

**RELATIONSHIP OF PARTS:** Used with continuous flow oxygen mask, Army type A-8B, A. E. Reference Number 46-1650.

### ARMY

A. E. REFERENCE NUMBER: 46-2155

**SPECIFICATIONS:**

Detail . . . . . 94-40319

**TYPE DESIGNATION:** A-9

**A. S. C. STOCK NUMBER:** Refer to column 5 of the chart.

**TECHNICAL ORDER NUMBER:** Refer to column 6 of the chart.

**PRODUCTION STATUS:** Not under procurement for initial installation because of Army change to demand type system.

**SHIPPING DATA:** Shipped complete with inlet fittings, cone, Army part number 36A2171, and nut, Army part number 041710.

### NAVY

There is no Navy equivalent for the Army item.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
**Models are used in services as noted in column 4**  
**A-Army, N-Navy, B-British**

Manufacturer	Manufacturer's Type Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	American Stores Reference Number	Remarks
Pioneer Instrument Division of Bendix Aviation Corp.	2805-3A-A1	2805-0	A-B	5500721110	03-50A-1	106D/244	
	2803-3A-A1	2803-0	A-B	5500721100	03-50A-1	106D 200	*

\*Interchangeability may be effected by removing straight plain type nipple, Pioneer part number PB-21154 (A. S. C. stock number 5500589030) and substituting bayonet type fitting, Army drawing number 41B2987.



### REGULATOR—LOW PRESSURE CONTINUOUS FLOW OXYGEN

ARMY TYPE A-9A      NAVY—SEE BELOW

NAMES: Low pressure continuous flow oxygen regulator      Regulator—oxygen  
Oxygen regulator      A-9A regulator  
Regulator—free flow

DESCRIPTION: The type A-9A low pressure continuous flow oxygen regulator is the same as the low pressure continuous flow oxygen regulator type A-9, except that the rate of flow at 20,000 and 30,000 feet has been increased by enlarging the opening of the outlet nipple assembly, and the flow indicator dial has been recalibrated accordingly. The needle valve offers a more sensitive control than in the A-9 type. The outlet nipple assembly is of the bayonet type. The type A-9A is preferred to all other low pressure continuous flow oxygen regulators.

**CHARACTERISTICS:**

Dimensions . . . . .	approximately 2 <sup>3</sup> / <sub>8</sub> inches wide by 4 <sup>1</sup> / <sub>2</sub> inches high by 4 <sup>5</sup> / <sub>8</sub> inches deep
Weight . . . . .	approximately 2 pounds
Pressure range . . . . .	0 to 500 pounds per square inch
Altitude range . . . . .	0 to 35,000 feet

RELATIONSHIP OF PARTS: Used with:  
Continuous flow oxygen mask, Army type A-8B . . . . . A. E. Reference Number 46-1650

**ARMY**

A. E. REFERENCE NUMBER: 46-2200

**SPECIFICATIONS:**

Detail . . . . . 94-40319

MANUFACTURER'S DRAWING NUMBER: Pioneer Instrument Division of Bendix Aviation Corporation 2805-0

TYPE DESIGNATION: A-9A

MANUFACTURER'S TYPE: Pioneer Instrument Division of Bendix Aviation Corporation 2805-3B-B1

A. S. C. STOCK NUMBER: 5500721120

TECHNICAL ORDER NUMBER: 03-50A-1

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped complete with inlet fittings, cone, Army part number 36A2171 and nut, Army part number 041710.

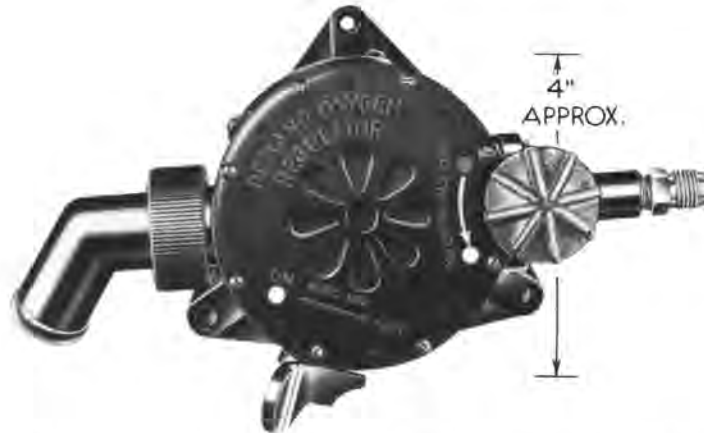
**NAVY**

PROCUREMENT STATUS: On airplanes procured from Army.

**BRITISH**

AMERICAN STORES REFERENCE NUMBER: 106D/182





## REGULATOR—LOW PRESSURE DILUTER DEMAND OXYGEN

### ARMY TYPE A-12

NAMES: Low pressure diluter demand oxygen regulator      Regulator—oxygen demand  
Oxygen regulator      A-12 regulator  
Regulator—diluter demand oxygen

DESCRIPTION: This low pressure diluter demand regulator was the first standard diluter demand regulator to be used by the Army. It has an "auto-mix" lever, which, when ON, allows mixing of air and oxygen; and when OFF, dispenses only pure oxygen. Each regulator has an emergency by-pass valve which, when turned counterclockwise, allows a continuous flow of oxygen to by-pass the entire regulator mechanism.

This regulator incorporates no pressure gage or flow indicator but has them as auxiliary installation units, as well as a low pressure oxygen warning signal which flashes a light when the oxygen supply becomes dangerously low. The regulator is connected to the hose of the demand type mask by means of a demand mask to regulator tube.

#### CHARACTERISTICS:

Dimensions.....approximately 4 inches in diameter by 2<sup>5</sup>/<sub>8</sub> inches thick  
Weight.....approximately 2 pounds  
Pressure range.....0 to 500 pounds per square inch  
Altitude range.....0 to 40,000 feet

#### RELATIONSHIP OF PARTS: Used with:

Low pressure oxygen pressure gage, Army type K-1...A. E. Reference Number 46-1400,  
Low pressure oxygen flow indicator, Army type A-1...A. E. Reference Number 46-1500, or  
Low pressure oxygen flow indicator, Army type A-3...A. E. Reference Number 46-1600,  
Low pressure oxygen pressure signal, Army type G-1...A. E. Reference Number 46-2450 and  
Demand mask to regulator tube of appropriate length...A. E. Reference Numbers 46-2630, 2640, 2650, 2700 or 2720.

### ARMY

A. E. REFERENCE NUMBER: 46-2350

#### SPECIFICATIONS:

General.....40363-A  
Detail.....40370

A. A. F. DRAWING NUMBER: 43D8177 (Pioneer design) or 43D8178 (Airco design).

TYPE DESIGNATION: A-12

A. S. C. STOCK NUMBER: Refer to column 5 of the chart.

TECHNICAL ORDER NUMBER: Refer to column 6 of the chart.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped complete with 1/8 inch pipe thread inlet and a 7/8 inch outer diameter swivel elbow nipple outlet.

(Continued on page 24)



# REGULATOR—LOW PRESSURE DILUTER DEMAND OXYGEN

(Continued from page 23)

## NAVY

Detail.....AN-R-5  
AN DRAWING NUMBER: AN6004  
TECHNICAL ORDER NUMBER: 42-40, 11-41, 17-41  
TECHNICAL NOTE NUMBER: 20-41, 30-41, 41-41  
PROCUREMENT STATUS: Under procurement with outlet deviation. Army type A-12 procured on airplanes procured from Army.

## BRITISH

AMERICAN STORES REFERENCE NUMBER: 106D/229

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
Models are used in services as noted in column 4  
A-Army, N-Navy, B-British

Manufacturer	Model Identification	Manufacturer's Part or Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	
Pioneer Instrument Division of Bendix Aviation Corp.	2850-A1	2850-0	A	5500721200	03-50A-5	
	2851-A1	2851-0	N	None		Produced to specification AN-R-5 Includes a blinker flowmeter and pressure gage. Pressure range 0 to 1800 pounds per square inch. Has outlet threaded for Mine Safety Appliance Company oxygen mask.
Aro Equipment Corp.	None	8800100	A	5500721200	03-50A-8 03-50A-11	*These approximate serial numbers will require the use of the connector assembly—1 to 69,800.
Air Reduction Sales Co.	None	A8000100	A	5500721200	03-50A-8	*These approximate serial numbers will require the use of the connector assembly—1 to 25,000.
Johnson Fare Box Co.	None	41-5000	A	5500721200	03-50A-8	*These approximate serial numbers will require the use of the connector assembly—1 to 29,000.
National Die Casting Co.	None	6000	A	5500721200	03-50A-8	*These approximate serial numbers will require the use of the connector assembly—1 to 27,250.

\*When used with a low pressure oxygen flow indicator, Army type A-3, A. E. Reference Number 46-1600, the old style casting which has the flow indicator outlet directly below the auto-mix lever must be adapted by using connector assembly, Army drawing number 43D3552, A. E. Reference Number 46-715. When used with low pressure oxygen flow indicator, Army type A-1, A. E. Reference Number 46-1500, all models shown are interchangeable without adaptation.





### CONNECTOR ASSEMBLY

ARMY DRAWING 43D3552

NAMES: Connector assembly—type A-3 oxygen system	Kit—conversion
Flow indicator	Connector assembly kit
Kit—connector assembly	Conversion kit

DESCRIPTION: This connector assembly is used to make an Airco low pressure diluter demand oxygen regulator, Army type A-12, interchangeable with a Pioneer low pressure diluter demand oxygen regulator, Army type A-12, when the Airco design is used with a low pressure oxygen flow indicator, Army type A-3. The original Airco design, Army drawing 43D8178, has the oxygen flow indicator outlet opening 108 degrees clockwise from the inlet and directly below the "auto-mix" lever. This connector assembly converts the location of the flow indicator opening to the side opposite the auto-mix lever, 72 degrees counterclockwise from the inlet connection. The Airco diluter demand oxygen regulator now incorporates in the casting the proper location for Army type A-3 low pressure oxygen flow indicator opening, thus eliminating the use of the connector assembly.

RELATIONSHIP OF PARTS: Used with:  
 Low pressure diluter demand oxygen regulator,  
 Army type A-12 (Airco design) . . . . . A. E. Reference Number 46-2350  
 Low pressure oxygen flow indicator, Army type A-3. . . . . A. E. Reference Number 46-1600

#### ARMY

A. E. REFERENCE NUMBER: 46-715  
 A. A. F. DRAWING NUMBER: 43D3552  
 A. S. C. STOCK NUMBER: 5500525000  
 MANUFACTURER'S PART NUMBER: Wyse laboratories WL-138-A-1.  
 PRODUCTION STATUS: Under procurement. Required on following serial numbered regulators only:  
 Aro Equipment Corporation, 1 to 69,800; Air Reduction Sales Company, 1 to 25,000; Johnson Fare  
 Box Company, 1 to 29,000; National Die Casting Company, 1 to 27,250.  
 SHIPPING DATA: Shipped as a complete unit.

#### NAVY

There is no Navy equivalent for the Army item.



# REGULATORS OXYGEN EQUIPMENT SECTION



## REGULATOR—LOW PRESSURE DEMAND WALK AROUND OXYGEN

**AN6022-1 FORMER ARMY TYPE A-13**

NAMES: Low pressure demand walk around oxygen regulator	Regulator—oxygen demand
Oxygen regulator	Walk around regulator
Regulator assembly—demand oxygen	A-13 regulator

DESCRIPTION: The low pressure demand walk around oxygen regulator is assembled with a low pressure oxygen cylinder, Army type A-4, to form the complete unit, AN6020. This regulator differs from an ordinary demand type regulator inasmuch as it has no "auto-mix" feature. It dispenses only pure oxygen on demand.

On the top of the regulator is a cylinder pressure gage, and a trap door oxygen outlet, into which the hose end of a demand type mask is inserted. On the side is a spout for refilling the oxygen unit from the recharger assembly. The back has a clamp for attaching the unit to the user's shirt front.

**CHARACTERISTICS:**

Dimensions . . . . .	approximately 5 <sup>15</sup> / <sub>16</sub> by 2 <sup>1</sup> / <sub>8</sub> by 3 <sup>13</sup> / <sub>32</sub> inches
Weight . . . . .	approximately 1 <sup>1</sup> / <sub>2</sub> pounds
Pressure range . . . . .	0 to 500 pounds per square inch
Altitude range . . . . .	0 to 40,000 feet

**RELATIONSHIP OF PARTS:** Used with:

Low pressure oxygen walk around cylinder,	
Army type A-4 . . . . .	A. E. Reference Number 46-900
To make the low pressure oxygen walk around unit . . . . .	A. E. Reference Number 46-725

**ARMY**

A. E. REFERENCE NUMBER: 46-2050

**SPECIFICATIONS:**

Detail: AN-R-11  
Superseded: 94-40382

AN DRAWING NUMBER: AN6022

TYPE DESIGNATION: A-13

A. S. C. STOCK NUMBER: Refer to column 5 of the chart.

TECHNICAL ORDER NUMBER: Refer to column 6 of the chart.

PRODUCTION STATUS: Under procurement.

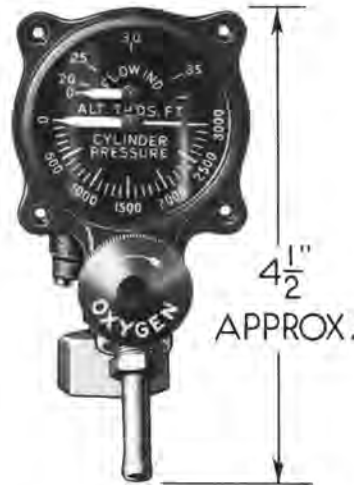
SHIPPING DATA: Assembled with low pressure oxygen walk around cylinder, Army type A-4, A. E. Reference Number 46-900, and shipped as low pressure oxygen walk around unit, AN6020, A. E. Reference Number 46-725.

**NAVY**

PROCUREMENT STATUS: On airplanes procured from Army.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
**Models are used in services as noted in column 4**  
**A-Army, N-Navy, B-British**

Manufacturer	Manufacturer's Model Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	Remarks
Lion Manufacturing Co.	0-506-1	0-506-1	A	5500718295-5	03-50A-6	Aro Equipment Company design
Marchant Calculating Machine Co.	1052-1	1052-1	A	5500718295-5	03-50A-9	Scott Aviation Company design
Peerless of America, Inc.	0-506-1	0-506-1	A	5500718295-5	03-50A-6	Aro Equipment Company design
Scott Aviation Co.	1052-1	1052-1	A	5500718295-5	03-50A-9	



### REGULATOR—HIGH PRESSURE CONTINUOUS FLOW OXYGEN ARMY TYPE A-6

NAMES: High pressure continuous flow oxygen regulator  
Oxygen regulator  
Regulator—free flow  
Regulator—oxygen  
A-6 regulator

DESCRIPTION: The type A-6 high pressure continuous flow regulator was the first of its type to be used. It was designed to work with pressures as high as 1800 pounds per square inch. This type was designed for use with a pipestem or mouthpiece, but may be used with an Army type continuous flow mask, with the regulator set at the 20,000-foot mark. Compared to the other continuous flow regulators, the type A-6 has the largest flow of oxygen.

CHARACTERISTICS:

Dimensions . . . . . approximately 2 3/8 inches wide by 4 29/32 inches deep by 4 1/2 inches long  
Weight . . . . . approximately 1 4/5 pounds  
Pressure range . . . . . 0 to 1800 pounds per square inch  
Altitude range . . . . . 0 to 35,000 feet

RELATIONSHIP OF PARTS: Connects to the inlet hose of the continuous flow oxygen mask, A. E. Reference Number 46-1650

#### ARMY

A. E. REFERENCE NUMBER: 46-1950

SPECIFICATIONS:

Detail . . . . . 94-40249

A. A. F. DRAWING NUMBER: 36D2025

TYPE DESIGNATION: A-6

A. S. C. STOCK NUMBER: Refer to column 5 of the chart.

TECHNICAL ORDER NUMBER: Refer to column 6 of the chart.

PRODUCTION STATUS: Not under procurement for initial installation because of Army change to low pressure demand type system.

SHIPPING DATA: Shipped complete with inlet fittings, cone, Army part number 36A2171 and nut, Army part number 041710.

#### NAVY

There is no Navy equivalent for the Army item.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
Models are used in services as noted in column 4  
A-Army, N-Navy, B-British, C-Commercial

Manufacturer	Manufacturer's Type Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	American Stores Reference Number
Pioneer Instrument Division of Bendix Aviation Corp.	962C	962C-0	A-B	5500720000	03-50A-1	106D/43
	2801-1A-A1		B-C			106D/1
	2801-2A-A1		B			106D/33*

\*Flow indicator dial graduated 0 to 10,000 meters altitude, cylinder pressure dial graduated 0 to 200 kilograms per square centimeter. Interchangeability effected by removing bayonet fitting, Army part number 41B2987 and incorporating straight nipple, Pioneer part number PB-10878, A.S.C. number 5500589000.



# REGULATORS OXYGEN EQUIPMENT SECTION



## REGULATOR—HIGH PRESSURE CONTINUOUS FLOW OXYGEN ARMY TYPE A-8

NAMES: High pressure continuous flow oxygen regulator      Regulator—free flow  
Oxygen regulator      A-8 regulator

DESCRIPTION: The high pressure continuous flow oxygen regulator is the same as the A-6 type, except that the rate of flow of oxygen at different altitudes has been reduced by using a smaller opening in the oxygen outlet nipple assembly. A smaller flow is permissible because, when a mask is used, much less oxygen is required than when used with a pipestem. The nipple assembly, over which the mask tube is inserted, is of the straight type. The type A-8 regulator has a knob bearing the words "Use with Mask Only" and a dial indicating flow calibration. This continuous flow regulator is used with Army type A-8 continuous flow mask, and cannot be used with a pipestem because the flow is insufficient.

CHARACTERISTICS:

Dimensions	approximately 2 <sup>3</sup> / <sub>8</sub> inches wide by 4 <sup>1</sup> / <sub>2</sub> inches high by 4 <sup>5</sup> / <sub>64</sub> inches deep
Weight	approximately 2 pounds
Pressure range	0 to 1800 pounds per square inch
Altitude range	0 to 35,000 feet

RELATIONSHIP OF PARTS: Connected to the inlet hose of the continuous flow oxygen mask, A. E. Reference Number 46-1650.

### ARMY

A. E. REFERENCE NUMBER: 46-2100

SPECIFICATIONS:

Detail.....94-40300

TYPE DESIGNATION: A-8

A. S. C. STOCK NUMBER: Refer to column 5 of the chart.

TECHNICAL ORDER NUMBER: Refer to column 6 of the chart.

PRODUCTION STATUS: Not under procurement for initial installation, because of Army change to low pressure demand type system.

SHIPPING DATA: Shipped complete with inlet fittings, cone, Army part number 36A2171 and nut, Army part number 041710.

### NAVY

There is no Navy equivalent for the Army item.

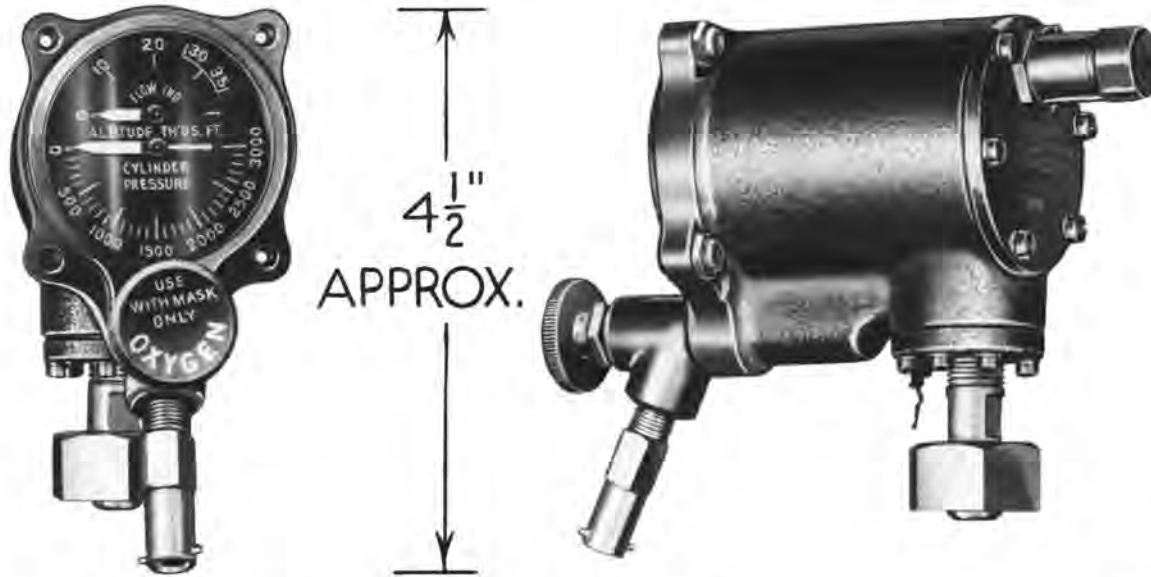
#### ALL MODELS BELOW ARE INTERCHANGEABLE Models are used in services as noted in column 4 A-Army, N-Navy, B-British, R. C. A. F.—Royal Canadian Air Force

Manufacturer	Manufacturer's Type Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	American Stores Reference Number	Remarks
Pioneer Instrument Division of Bendix Aviation Corp.	2802-1B-A2	2802-0	A	5500721050	03-50A-1	106D 49	*
	2802-1C-A2		C				
	2802-1E-A2		C				
	2802-2E-A2		B			106D/32	**
	2804-1A-A1		R. C. A. F.				
	2806-1B-A1	2802-0	A		5500721060	03-50A-1	***

\*Flow indicator dial graduated 0 to 10,000 meters altitude; cylinder pressure dial graduated 0 to 200 kilograms per square centimeter.

\*\*Used with mouth piece by Royal Canadian Air Force with special bayonet outlet fitting. Interchangeability effected by removing special bayonet fitting and installing nipple assembly, Pioneer part number PB21154 (A. S. C. stock number 5500589030).

\*\*\*Interchangeability effected by removing bayonet fitting outlet, Army drawing number 41B2987 and installing nipple assembly, Pioneer part number PB21154 (A. S. C. stock number 5500589030).



### REGULATOR—HIGH PRESSURE CONTINUOUS FLOW OXYGEN

#### ARMY TYPE A-8

**NAMES:** High pressure continuous flow oxygen regulator      Regulator—oxygen with fitting 41B2987  
Oxygen regulator      A-8 regulator  
Regulator—free flow

**DESCRIPTION:** The Army type A-8 high pressure continuous flow oxygen regulator incorporates a bayonet type outlet nipple for use with Army type A-8 series oxygen masks, which incorporate a bayonet type fitting at the hose end. The bayonet fitting is Army part number 41B2987.

**CHARACTERISTICS:**

Dimensions . . . . . approximately 2<sup>3</sup>/<sub>8</sub> inches wide by 4<sup>1</sup>/<sub>2</sub> inches high by 4<sup>5</sup>/<sub>64</sub> inches deep  
Weight . . . . . approximately 2 pounds  
Pressure range . . . . . 0 to 1800 pounds per square inch  
Altitude range . . . . . 0 to 35,000 feet

**RELATIONSHIP OF PARTS:** Used with:  
Continuous flow mask, Army type A-8B, A. E. Reference Number 46-1650

#### ARMY

A. E. REFERENCE NUMBER: 46-2105

**SPECIFICATIONS:**

Detail . . . . . 94-40300

**TYPE DESIGNATION:** A-8

**A. S. C. STOCK NUMBER:** Refer to column 5 of the chart.

**TECHNICAL ORDER NUMBER:** Refer to chart.

**PRODUCTION STATUS:** Not under procurement for initial installation because of Army change to low pressure demand type system.

**SHIPPING DATA:** Shipped complete with inlet fittings, cone, Army part number 36A2171 and nut, Army part number 041710.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
**Models are used in services as noted in column 4**  
**A-Army, N-Navy, B-British, C-Commercial, R. C. A. F.-Royal Canadian Air Force**

Manufacturer	Manufacturer's Model Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	American Stores Reference Number	Remarks
Pioneer Instrument Division of Bendix Aviation Corp.	2802-1B-A1	2802-0	A	5500721060	03-50A-1		*
	2802-1B-A2	2802-0	A	5500721050	03-50A-1		*
	2802-1C-A2	2802-0	C				*
	2802-1E-A2	2802-0	C				**
	2804-1A-A1		R. C. A. F.				
	2802-2E-A2	2802-0	B			106D/32	* Metric Markings

\* Interchangeability effected by removing nipple assembly, Pioneer part number PB-21154 (A. S. C. number 5500589030) and installing bayonet fitting, Army drawing number 41B2987.  
\*\* Used with mouthpiece by R. C. A. F. with special bayonet fitting. Interchangeability effected by removing special mouthpiece and installing bayonet fitting, Army drawing number 41B2987.



# REGULATORS OXYGEN EQUIPMENT SECTION



## REGULATOR—HIGH PRESSURE CONTINUOUS FLOW OXYGEN

ARMY TYPE A-8A NAVY—SEE BELOW

NAMES: High pressure continuous flow oxygen regulator      Regulator—oxygen  
Oxygen regulator      A-8A regulator  
Regulator—free flow

DESCRIPTION: The type A-8A high pressure continuous flow oxygen regulator is similar to high pressure continuous flow oxygen regulator type A-8, except that the rate of flow at 20,000 and 30,000 feet has been increased by enlarging the opening of the outlet nipple assembly, and the flow indicator dial has been recalibrated accordingly. The needle valve offers a more sensitive control of flow than in the A-8 type. The outlet nipple assembly is of the bayonet type.

At present, the chief use for this regulator is in combination with a high pressure oxygen cylinder and a high pressure oxygen portable unit sling, forming a portable oxygen unit for use in aircraft not equipped with an oxygen system.

### CHARACTERISTICS:

Dimensions.....approximately 2<sup>3</sup>/<sub>8</sub> inches wide by 4<sup>1</sup>/<sub>2</sub> inches high by 4<sup>53</sup>/<sub>64</sub> inches deep  
Weight.....approximately 2 pounds  
Pressure range.....0 to 1800 pounds per square inch  
Altitude range.....0 to 35,000 feet

### RELATIONSHIP OF PARTS: Used with:

High pressure oxygen cylinder, Army type B-1.....A. E. Reference Number 46-950  
Portable high pressure oxygen sling.....A. E. Reference Number 46-2600, and  
Continuous flow oxygen mask, Army type A-8B.....A. E. Reference Number 46-1650

### ARMY

A. E. REFERENCE NUMBER: 46-2000

### SPECIFICATIONS:

Detail.....94-40300

TYPE DESIGNATION: A-8A

A. S. C. STOCK NUMBER: Refer to column 5 of the chart.

TECHNICAL ORDER NUMBER: Refer to column 6 of the chart.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped complete with inlet fittings; cone, Army part number 36A2171 and nut, Army part number 041710.

### NAVY

TECHNICAL ORDER NUMBER: 42-40; 11-41

TECHNICAL NOTE NUMBER: 30-41

PROCUREMENT STATUS: On airplanes procured from Army.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
Models are used in services as noted in column 4  
A-Army, N-Navy, B-British, C-Commercial

Manufacturer	Manufacturer's Type Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	American Stores Reference Number
Pioneer Instrument Division of Bendix Aviation Corp.	2806-1D-B1	2806-0	A-N	5500717750	03-50A-1	106D 235
	2806-1C-B1	2806-0	C			



## REGULATOR—HIGH PRESSURE OXYGEN BRITISH MARK VIII A\*

NAMES: High pressure oxygen regulator  
Mark VIII A\* regulator  
Oxygen regulator

Regulator—high pressure oxygen delivery  
Regulator—oxygen

DESCRIPTION: The British high pressure oxygen regulator, Mark VIII A\*, is essentially a high pressure continuous flow regulator. It consists of a reducing valve, a cylinder pressure gage, a flow indicator, and a hand-controlled delivery valve. The cylinder pressure gage has a contents dial to show the supply remaining in the high pressure cylinders. The flow indicator dial is graduated from 0 to 40,000 feet. The handle of the delivery valve is located between and below the contents dial and the delivery dial.

When used in a single outlet installation, the regulator is used with a bayonet union socket, Mark III A. When used to supply two alternative stations, the regulator is used with an oxygen flowmeter, Mark II, and bayonet union socket, Mark III B. When used in a system having more than one regulator connected to a group of high pressure cylinders, it is used with a high pressure oxygen regulator, Mark VIII B.

The Mark VIII A\* regulator has been superseded in use by a Mark VIII C regulator used with a Mark II economizer.

### CHARACTERISTICS:

Dimensions . . . . . approximately 3 3/4 by 5 by 2-3/5 inches  
Weight . . . . . approximately 2 1/2 pounds  
Altitude range . . . . . 0 to 40,000 feet  
Pressure range . . . . . 0 to 1800 pounds

### RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Bayonet union socket, Mark III A	6D/83	106D/4	46-2610
(Or The Following Combination)			
Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Bayonet union socket, Mark III B	6D/112	106D/5	46-2612
High pressure oxygen regulator, Mark VIII B	6D/476	106D/46	46-2371
Oxygen flowmeter, Mark II	6D/232	106D/26	46-1620

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# REGULATOR—HIGH PRESSURE OXYGEN

(Continued from page 31)

## ARMY

A. E. REFERENCE NUMBER: 46-2370 (former A. E. Reference Number 97-6780)

TYPE DESIGNATION: British Mark VIIIA\*

A. S. C. STOCK NUMBER: 5500718298

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by Mark VIIIC regulator, British Stores reference number 6D/513, American Stores reference number 106D/75, A. E. Reference Number 46-2375.

SHIPPING DATA: Shipped as a complete unit.

## BRITISH

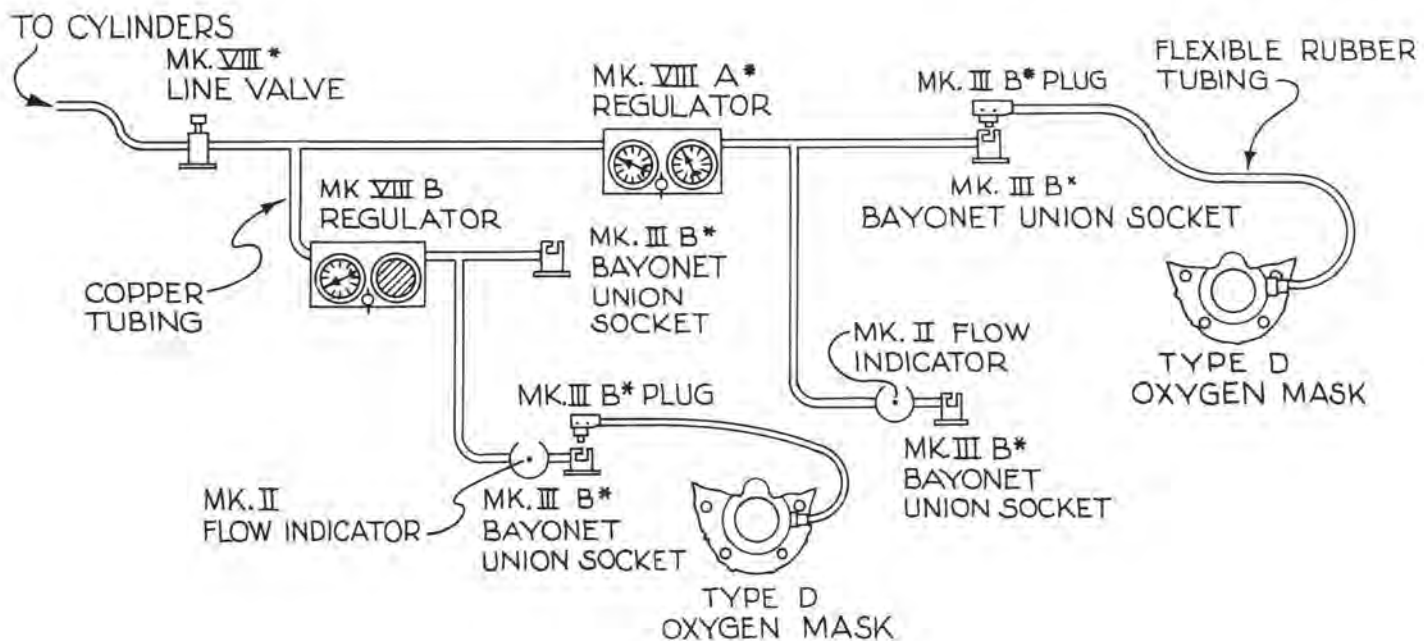
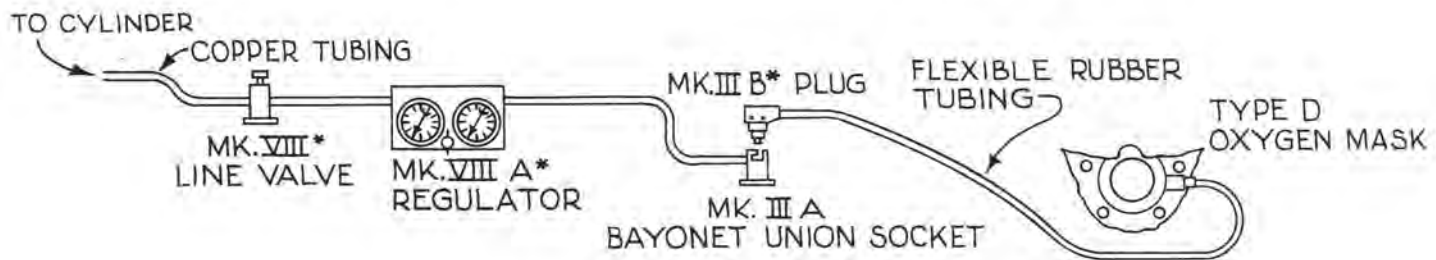
AIR MINISTRY SPECIFICATION: 0.85

AIR MINISTRY DRAWING NUMBER: W6640 and S. I. S. 598

TYPE DESIGNATION: Mark VIIIA\*

BRITISH STORES REFERENCE NUMBER: 6D/124

AMERICAN STORES REFERENCE NUMBER: 106D/22







## REGULATOR—HIGH PRESSURE OXYGEN BRITISH MARK VIII B

NAMES: High pressure oxygen regulator  
Mark VIII B regulator

Regulator—high pressure oxygen delivery  
Regulator oxygen—without control gage

DESCRIPTION: This high pressure oxygen regulator, Mark VIII B, is the same as the high pressure oxygen regulator, Mark VIIIA\*, except that the cylinder pressure gage has been removed and the contents dial blanked out. This regulator is intended for use in an installation having more than one regulator connected to a group of high pressure cylinders. In this instance, a pressure gage and contents dial on every regulator would be superfluous, since the contents of the cylinders are checked by the captain or pilot controlling a Mark VIIIA\* high pressure oxygen regulator. In such an installation, high pressure oxygen regulator Mark VIIIB is used with a bayonet union socket, Mark IIIA, when there is but one outlet. When used to supply two alternative stations, it is used with a bayonet union socket, Mark IIIB, and an oxygen flowmeter, Mark II.

### CHARACTERISTICS:

Dimensions..... approximately 3 3/4 by 5 by 2 3/5 inches  
Weight..... approximately 2 1/2 pounds  
Altitude range..... 0 to 40,000 feet  
Pressure range..... 0 to 1800 pounds

### RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Bayonet union socket, Mark IIIA	6D/83	106D/4	46-2610
High pressure oxygen regulator, Mark VIIIA*	6D/124	106D/22	46-2370

(Or the Following Combination)

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Bayonet union socket, Mark IIIB	6D/112	106D/5	46-2612
High pressure oxygen regulator, Mark VIIIA*	6D/124	106D/22	46-2370
Oxygen flowmeter, Mark II	6D/232	106D/26	46-1620

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# REGULATOR—HIGH PRESSURE OXYGEN

(Continued from page 33)

## ARMY

A. E. REFERENCE NUMBER: 46-2371 (former A. E. Reference Number 97-6850)

TYPE DESIGNATION: British Mark VIII B

A. S. C. STOCK NUMBER: 5500718410

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by Mark VIII D regulator, American Stores reference number 106D/141, British Stores reference number 6D/525.

SHIPPING DATA: Shipped as a complete unit.

## BRITISH

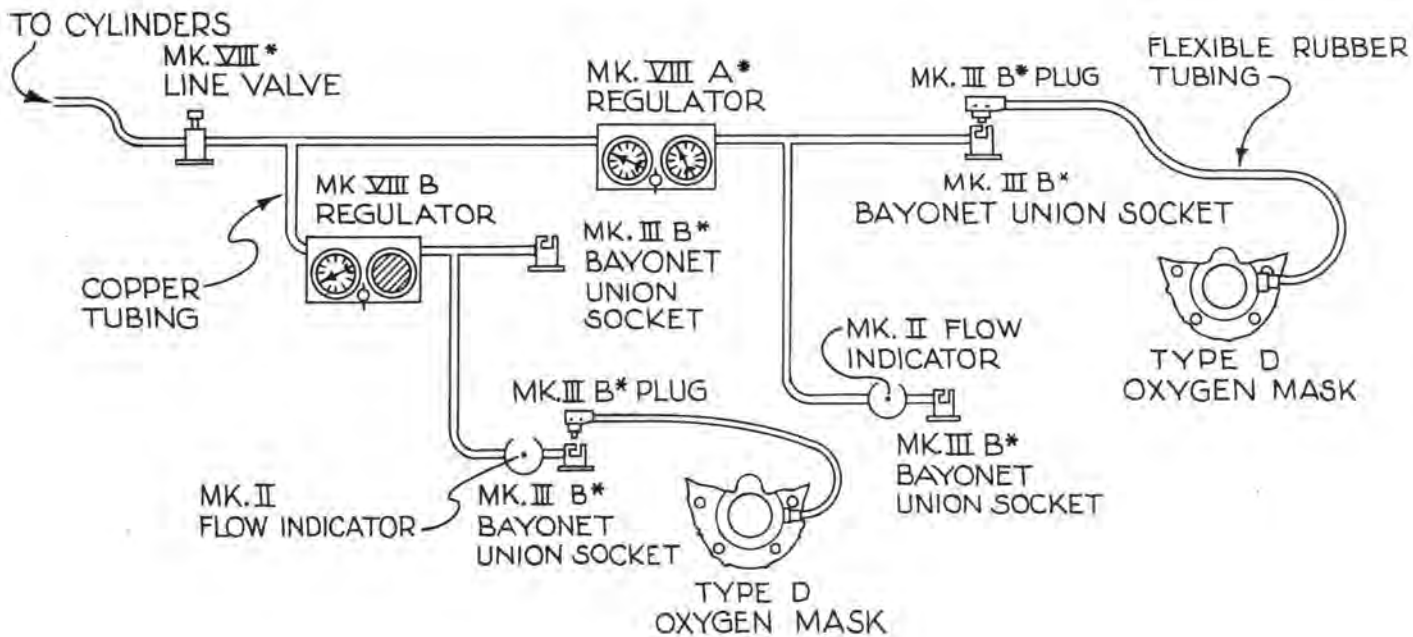
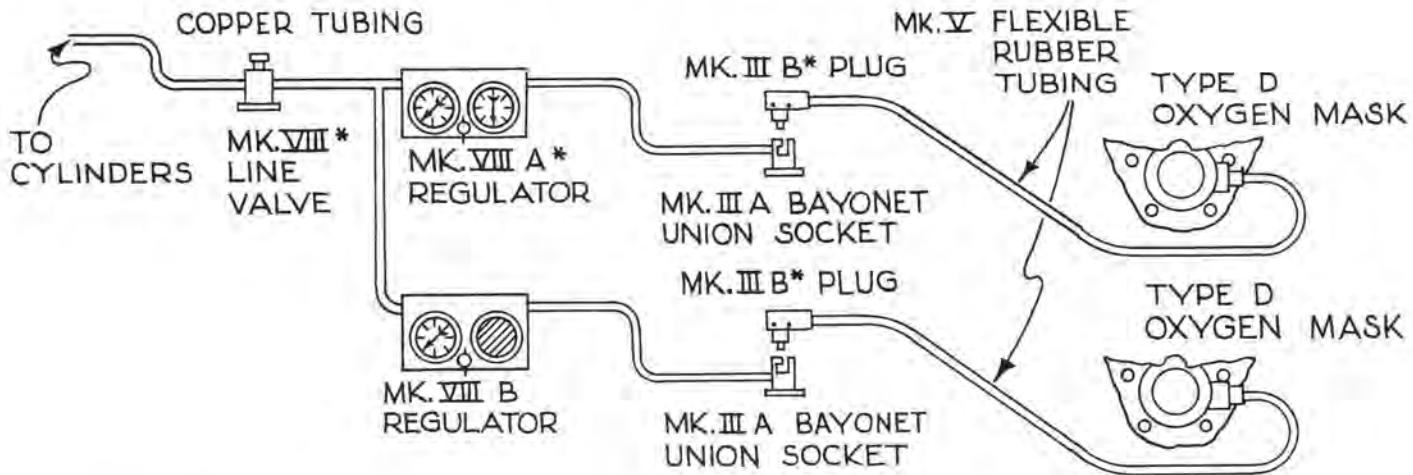
AIR MINISTRY SPECIFICATION: 0.85

AIR MINISTRY DRAWING NUMBER: W6640 and S. I. S. 589

TYPE DESIGNATION: Mark VIII B

BRITISH STORES REFERENCE NUMBER: 6D/476

AMERICAN STORES REFERENCE NUMBER: 106D/46





## REGULATOR—HIGH PRESSURE OXYGEN BRITISH MARK VIII C

NAMES: High pressure oxygen regulator  
Mark VIII C regulator  
Oxygen regulator

Regulator—high pressure oxygen delivery  
Regulator—oxygen

DESCRIPTION: The high pressure oxygen regulator, Mark VIII C, is used with an oxygen economizer, Mark I or Mark II, and a British type E or G oxygen mask. It is the same as the high pressure oxygen regulator, Mark VIIIA\*, except that the flow has been reduced. The flow indicator dial is engraved with the word EMERGENCY and an arrow. It is calibrated to include emergency flow and is modified to suit the reduced oxygen flow required for the economizers. In a single outlet installation, the regulator is used with an economizer and bayonet union socket, Mark IV. When used to supply two alternative stations the regulator is used with a cut-off valve, Mark I, a low pressure safety valve, Mark I, and a Mark IV bayonet union socket. In a system having more than one regulator, it is used with a high pressure oxygen regulator, Mark VIIID. The Mark VIIID regulator is the same as of the Mark VIII C, except that the cylinder pressure gage and contents dial have been omitted.

CHARACTERISTICS:

Dimensions..... approximately 3 3/4 by 5 by 2 3/5 inches  
Weight..... approximately 2 1/2 pounds  
Altitude range..... 0 to 40,000 feet  
Pressure range..... 0 to 1800 pounds

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Oxygen economizer, Mark II	6D/479	106D/76	46-1340
Bayonet union socket, Mark IV	6D/527	106D/51	46-2615

(Or the Following Combination)

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Oxygen economizer, Mark II	6D/479	106D/76	46-1340
Bayonet union socket, Mark IV	6D/527	106D/51	46-2615
Cut off valve, Mark I	6D/480	106D/144	46-2875
Low pressure safety valve, Mark I	6D/581	106D/160	

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# REGULATOR—HIGH PRESSURE OXYGEN

(Continued from page 35)

## ARMY

A. E. REFERENCE NUMBER: 46-2375 (former A. E. reference number 97-6920)

TYPE DESIGNATION: British Mark VIII C

A. S. C. STOCK NUMBER: 5500718408

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

## BRITISH

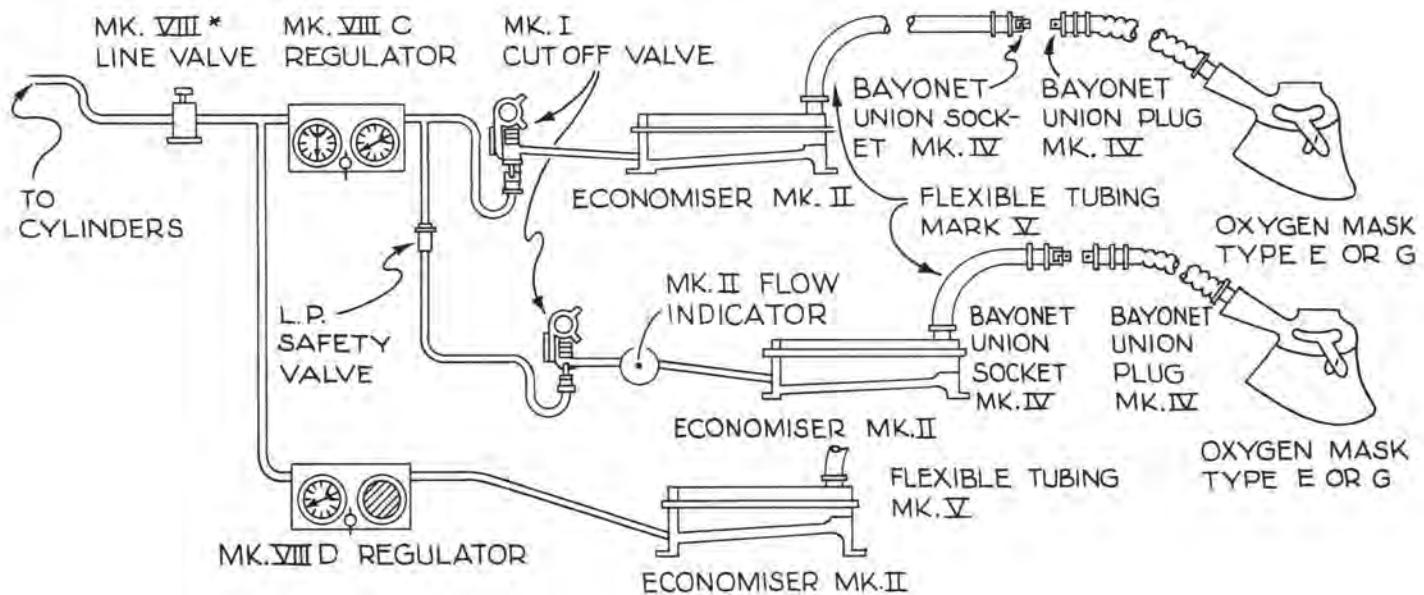
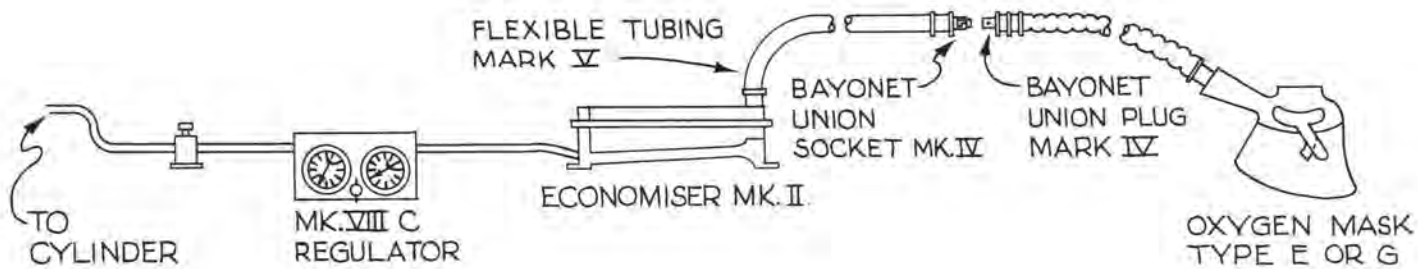
AIR MINISTRY SPECIFICATION: 0.85

AIR MINISTRY DRAWING NUMBER: W6640 and S. I. S. 589

TYPE DESIGNATION: Mark VIII C

BRITISH STORES REFERENCE NUMBER: 6D/513

AMERICAN STORES REFERENCE NUMBER: 106D/75





## REGULATOR—HIGH PRESSURE OXYGEN MASTER BRITISH MARK X

NAMES: High pressure oxygen master regulator  
Mark X regulator  
Master oxygen regulator

Oxygen regulator  
Regulator—high pressure oxygen  
Regulator—oxygen

DESCRIPTION: The high pressure oxygen master regulator, Mark X, operated by the captain or pilot of an airplane, controls oxygen delivery to as many as eight crew members. It consists of a reduction valve, flow control valve, ON-OFF valve, high pressure gage, and low pressure gage. The high and low pressure gages are on the right and left side of the mounting panel, respectively. The high pressure gage has a dial, calibrated to indicate the available contents of high pressure cylinders. The low pressure gage indicates the rate of flow of oxygen for various altitudes. Beneath these gages are the control handles of the ON-OFF valve and the flow control mechanism. The left handle regulates flow from the regulator and the right handle controls the supply of oxygen from the cylinders to the regulator.

The Mark X master regulator is intended for use with oxygen distributing manifolds, Mark I or IA, each carrying four fixed metering outlet jets. When used in an installation incorporating an economizer, oxygen manifold Mark IA is used. When used in an installation without an economizer, oxygen manifold Mark I is used.

### CHARACTERISTICS:

Dimensions . . . . . approximately 6 by 4½ by 7 inches  
Weight . . . . . approximately 7½ pounds  
Pressure range . . . . . 0 to 1800 pounds per square inch  
Altitude range . . . . . 0 to 40,000 feet

### RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Oxygen manifold, Mark I	6D/251	106D/25	46-1643
(or the following combination)			
Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Oxygen manifold, Mark IA	6D/515	106D/143	46-1645
Oxygen economizer, Mark II	6D/479	106D/76	46-1340

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# REGULATOR—HIGH PRESSURE OXYGEN MASTER

(Continued from page 37)

## ARMY

A. E. REFERENCE NUMBER: 46-2385 (former A. E. Reference Number 97-6710)

TYPE DESIGNATION: British Mark X

A. S. C. STOCK NUMBER: 5500718500

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

## BRITISH

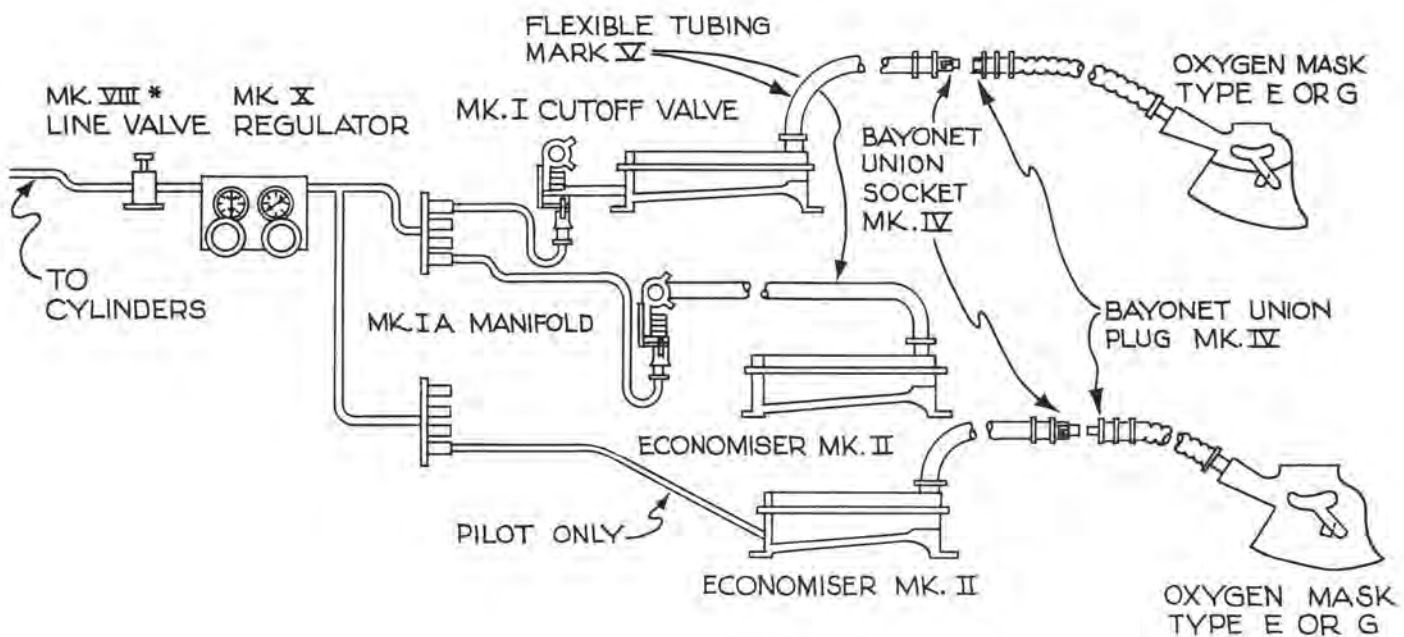
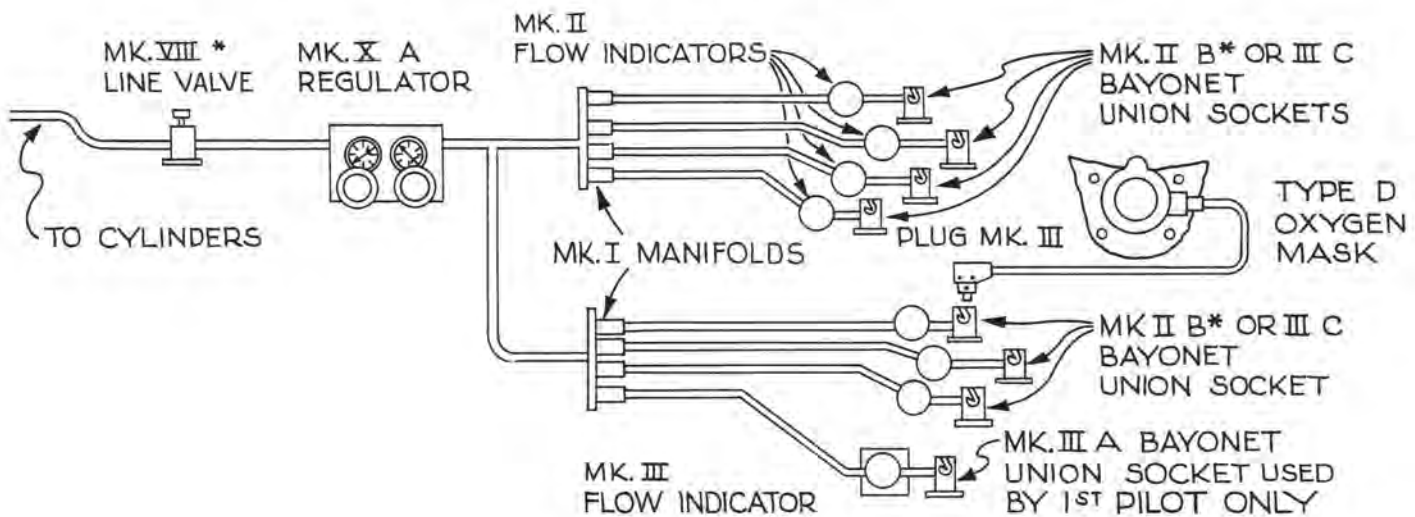
AIR MINISTRY SPECIFICATION: 0.105

AIR MINISTRY DRAWING NUMBER: H19012 and S. I. S. 2604

TYPE DESIGNATION: Mark X

BRITISH STORES REFERENCE NUMBER: 6D/231

AMERICAN STORES REFERENCE NUMBER: 106D/24





## MASKS — OXYGEN BREATHING

An oxygen breathing mask is a molded rubber apparatus designed to fit the head and face and to enable the wearer to breathe gaseous oxygen dispensed from the airplane oxygen supply system. It is an oral-nasal type which permits the wearer to breathe through either the mouth or nose. Each mask is provided with a rubber intake tube and fitting for rapid connection to the oxygen supply.

Two types of oxygen mask are available:

The Continuous Flow Mask

The Demand Oxygen Mask

### THE CONTINUOUS FLOW MASK

The continuous flow mask is used only with a continuous flow regulator. The mask is provided with a microphone pocket, two sponge rubber disk turrets, one on either side of the microphone pocket, a flexible rubber rebreather bag which is attached to the base of the mask, and a rubber intake tube with a bayonet fitting which connects to the oxygen system.

The sponge rubber disks act as air inhalation and exhalation valves. They also reduce the breathing resistance and decrease the possibility of freezing. The regulator is adjusted to give a continuous flow of the required quantity of oxygen. The oxygen flows from the regulator into the rebreather bag, where it mixes with the gases present. Upon inhalation, the gases are taken from the bag; when the gas in the bag is depleted, a quantity of air is drawn in from the atmosphere through the sponge rubber disks. Upon exhalation, the first part of the expired air passes into the bag, and as soon as the bag becomes distended, the remaining gases pass out through the sponge rubber disks.

### THE DEMAND OXYGEN MASK

The demand type mask is used only with a demand type regulator. The demand mask consists of a rubber face piece with an expiratory flutter valve mounted in it and a connecting corrugated rubber tube equipped with a rapid connect fitting, Army part Number 42B5341-1, which connects to the regulator outlet. Straps are provided for suspending the mask from the head harness or helmet. A pocket in the nose section of the mask is designed for the inclusion of a microphone. Upon inhalation, the proper oxygen mixture is drawn from the demand regulator up through the flexible tube, entering the mask through two inlet ducts alongside the nose of the mask. During inhalation, the exhalation valve remains shut. Upon exhalation, the flow from the demand regulator stops while the valve flap lifts off the valve seat, permitting the exhaled gases to pass through the exhalation valve. The exhaled gases go out through the flutter valve, and are conducted down across the face of the mask, under the shield, and out. This keeps warm air insulation between the valve and the outside air, and reduces the tendency to freeze. *All mixture* which the wearer breathes *must* come from the demand regulator, which controls the proper mixture of air and oxygen and, automatically, dispenses an adequate oxygen supply

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**MASKS — OXYGEN BREATHING**

*(Continued from page 39)*

at altitude. Increasing the flow of oxygen at higher altitudes permits the wearer to breathe a greater proportion of oxygen than of atmospheric air. Since the demand regulator releases oxygen *only* in proportion to the suction of inspiration, the demand mask *must fit tightly to the face* to insure the proper supply of oxygen at extreme altitudes. A leak-proof fit is essential. Mask leakage causes a reduction in the amount of oxygen released, allows a portion of that amount to escape, and also dilutes the necessary oxygen mixture, with the possible result of unconsciousness and death at high altitudes.

The development of the various types of demand masks has been an attempt to eliminate leakage by insuring the best possible tailored or individual fit. Consequently, it is a problem of first importance to fit each face with a mask. In order to compensate for the various types of facial contours, several types and sizes of demand masks were developed. Type A-9 was the first demand mask to be developed, a small quantity was purchased, but, owing to its limitations and because of further developments, the A-9 was superseded by the A-10. In turn, the A-10 demand mask was revised and improved, and is now known and procured as the A-10 Revised and comes in four sizes.

Standard size —A. S. C. Stock Number 8300595850

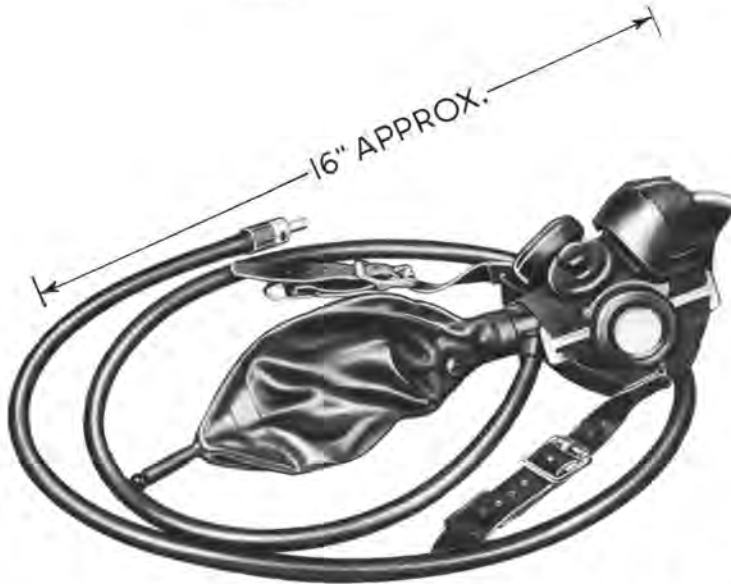
Large size —A. S. C. Stock Number 8300595840

Small size —A. S. C. Stock Number 8300595845

Extra small size—A. S. C. Stock Number 8300595830

To further insure an individual fit and eliminate the possibility of leakage, demand type masks are not G.F.E. but are considered personal issue as organizational equipment as per field order memorandum Number 77, March 20, 1943.





### MASK—CONTINUOUS FLOW OXYGEN

ARMY TYPE A-8B

NAVY—SEE BELOW

NAMES: Continuous flow oxygen mask

Type A-8B oxygen mask assembly

DESCRIPTION: This is a continuous flow oxygen mask and is used to dispense oxygen to personnel when continuous flow oxygen regulators are installed. It is provided with a strap suspension which buckles to the helmet. The end of the intake tube is equipped with a coupling fitting, Army part number 41A2988, which permits the mask apparatus to be readily attached, bayonet fashion, to the oxygen outlet of the continuous flow regulator. This mask can be used in a British oxygen system by removing the coupling fitting and substituting the Army Oxygen Mask to British Oxygen Outlet Adapter, A. E. Reference Number 46-675.

This mask can be converted into a demand type by using a conversion kit, Army part number 43D14867. The conversion is accomplished by replacing the re-breather bag and oxygen intake tube with a corrugated rubber tube, which is provided with a standard rapid connect (slip-in-fit) fitting, Army part number 42B5341-1. Each sponge rubber disk is replaced with a valve insert, valve flap and a rubber insulating shield, all contained in the conversion kit.

CHARACTERISTICS:

Weight . . . . . approximately  $\frac{5}{8}$  pound  
Dimensions . . . . . approximately 7 by 16 inches

RELATIONSHIP OF PARTS: Used with:

Item	Army Type	A. E. Reference Number
High pressure continuous flow regulator or Low pressure continuous flow regulator or Automatic oxygen coupling	A-8A A-9A 41A6006 (drawing number)	46-2000 46-2220 46-1350

#### ARMY

A. E. REFERENCE NUMBER: 46-1650

SPECIFICATIONS:

General . . . . . AN-M-3  
Detail . . . . . 94-3107

A. A. F. DRAWING NUMBER: 42G4764

TYPE DESIGNATION: A-8B

A. S. C. STOCK NUMBERS: 8300595770

TECHNICAL ORDER NUMBERS: 13-20-1, 13-20-2, 13-20-4, 03-50-1A

PRODUCTION STATUS: Under procurement for those planes not yet changed to the demand type system, and for troop transports and trainers.

SHIPPING DATA: Shipped as a complete unit.

#### NAVY

PROCUREMENT STATUS: Under procurement.

#### BRITISH

BRITISH STORES REFERENCE NUMBER: 106D/167



### ADAPTER—CONTINUOUS FLOW ARMY OXYGEN MASK TO BRITISH OXYGEN OUTLET

ARMY DRAWING NUMBER 42B13342

NAMES: Continuous flow Army oxygen mask to British oxygen outlet adapter  
Adapter assembly—oxygen mask to British oxygen outlet  
Oxygen mask adapter

DESCRIPTION: This adapter enables the Army type continuous flow mask to be used in a British oxygen system, in lieu of the British type D oxygen mask. The removal of the tube end fitting of the Army type continuous flow mask and the substitution of this adapter allows the Army type mask to connect into the British oxygen outlet bayonet union socket. The stepped end is inserted into the end of the mask intake tube, while the bayonet end fits into the bayonet union socket.

CHARACTERISTICS:

Material . . . . . brass  
Dimensions . . . . . approximately 1 by 3 inches  
Weight . . . . . approximately  $\frac{3}{16}$  pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Continuous flow oxygen mask, Army type A-8B		106D/167	46-1650
and			
Bayonet union socket, Mark IIIA	6D/83	106D/4	46-2610
or			
Bayonet union socket, Mark IIIB*	6D/112	106D/5	46-2612
or			
Bayonet union socket, Mark IIIC	6D/534	106D/145	46-2613

#### ARMY

A. E. REFERENCE NUMBER: 46-675  
ARMY DRAWING NUMBER: 42B13342  
A. S. C. STOCK NUMBER: 5500006950  
TECHNICAL ORDER NUMBER: 03-50-10  
PRODUCTION STATUS: Under procurement.  
SHIPPING DATA: Shipped as a complete unit.



2 3/8"  
APPROX.



### GAGE—LOW PRESSURE OXYGEN PRESSURE

AN6021-1      FORMER ARMY TYPE K-1      NAVY—SEE BELOW

NAMES: Low pressure oxygen pressure gage	Pressure gage
Gage—oxygen pressure	Low pressure gage
Gage—panel mounting low pressure oxygen	K-1 pressure gage
Oxygen pressure gage	

DESCRIPTION: This Bourdon tube type low pressure oxygen pressure gage is used to indicate the pressure of the oxygen in the supply cylinders in pounds per square inch. It is mounted in a panel with Army types A-1 of A-3 oxygen flow indicators, and a warning signal lamp assembly.

CHARACTERISTICS:

Dimensions . . . . .	approximately 2 3/8 by 2 3/8 by 1 1/4 inches
Weight . . . . .	approximately 1/4 pound
Pressure range . . . . .	0 to 500 pounds per square inch
Fitting . . . . .	1/8 inch internal pipe thread

#### ARMY

A. E. REFERENCE NUMBER: 46-1400

Detail: AN-G-13

Superseded: 94-27368

AN DRAWING NUMBER: AN6021

TYPE DESIGNATION: K-1

A. S. C. STOCK NUMBER: Refer to column 5 of the chart.

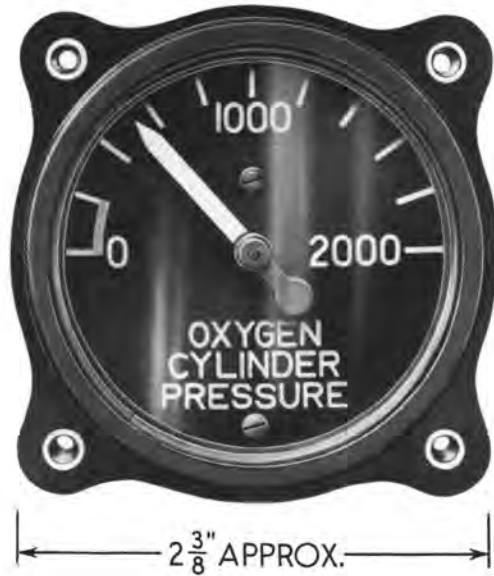
TECHNICAL ORDER NUMBER: Refer to column 6 of the chart.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
**Models are used in services as noted in column 4**  
**A-Army, N-Navy, B-British, C-Commercial**

Manufacturer	Manufacturer's Model Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	American Stores Reference Number
A. C. Spark Plug Division	1506467		A-B	5500453500	03-50-23	106D/191
Clapp Instrument Co.	EA-201		A-B	5500453500		106D/191
General Electric Co.	M-5718624	5718624GR-1	A-B	5500453500	03-50-23	106D/191
U. S. Gauge Co.	AW-1-7/8-27-A		A-B	5500452850		106D/191



### GAGE—HIGH PRESSURE OXYGEN PRESSURE

AN6011-1 FORMER ARMY TYPE L-1

- |   |                      |
|---|----------------------|
| NAMES: High pressure oxygen pressure gage | Oxygen pressure gage |
| Gage—high pressure oxygen                 | Pressure gage        |
| Gage—oxygen pressure                      | L-1 pressure gage    |
| Gage—panel mounting high pressure oxygen  |                      |

DESCRIPTION: This Bourdon tube type high pressure oxygen pressure gage is used in a high pressure oxygen system to indicate the pressure of the oxygen in the supply cylinders.

CHARACTERISTICS:

- |                          |  |
|--------------------------|--|
| Dimensions . . . . .     | approximately 2 3/8 by 2 3/8 by 1 1/4 inches |
| Weight . . . . .         | approximately 2/5 pound                      |
| Pressure Range . . . . . | 0 to 2000 pounds per square inch             |
| Fitting . . . . .        | 1/8 inch internal pipe thread                |

#### ARMY

A. E. REFERENCE NUMBER: 46-1450

SPECIFICATIONS:

- |                      |          |
|----------------------|----------|
| Detail . . . . .     | AN-G-12  |
| Superseded . . . . . | 94-27369 |

AN DRAWING NUMBER: AN6011

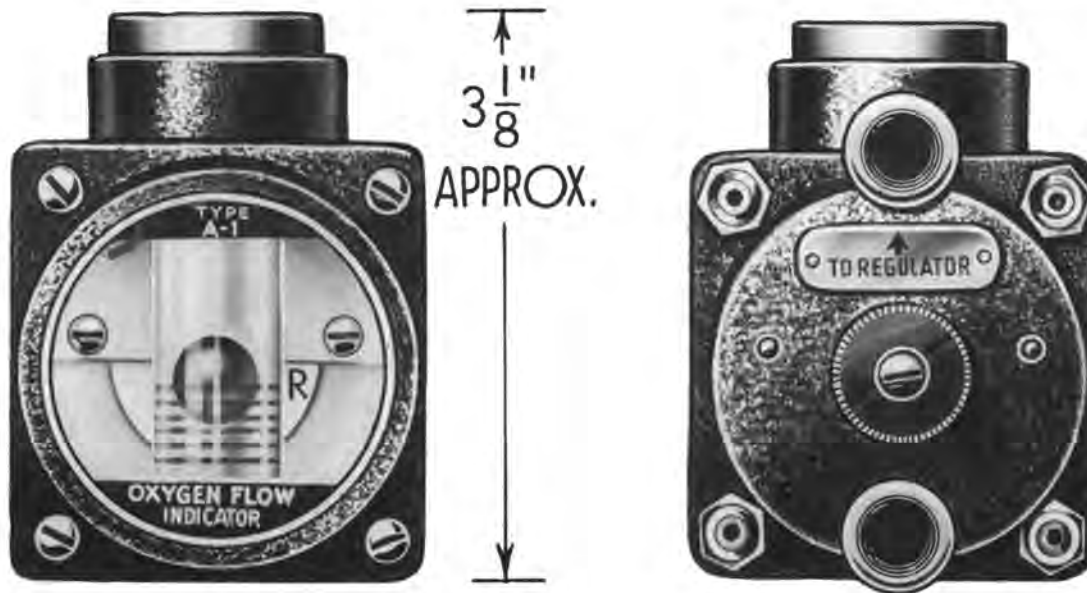
FORMER TYPE DESIGNATION: L-1

PRODUCTION STATUS: Not under procurement for initial installation because of Army change to low pressure oxygen systems.

SHIPPING DATA: Shipped as a complete unit.

#### NAVY

PROCUREMENT STATUS: Not under procurement.



### INDICATOR—OXYGEN FLOW

#### ARMY TYPE A-1

NAMES: Oxygen flow indicator  
Indicator—oxygen system flow  
Indicator assembly—automatic check flow oxygen  
Indicator assembly—oxygen automatic check flow

Flow indicator—oxygen  
A-1 flow indicator

DESCRIPTION: The Army type A-1 oxygen flow indicator is installed in the oxygen supply line ahead of the Army type A-12 low pressure diluter demand oxygen regulator to provide a positive visual indication that oxygen is flowing to the regulator. The indicator consists of a clear glass tube containing a red glass ball. When oxygen flows to the regulator upon inhalation and exhalation, it passes through the indicator, causing the glass ball to rise and fall in the glass tube. The plate, and one-half of the disk located behind the glass tube, are painted with fluorescent luminescent paint for use where ultra-violet light is used. The other half of the disk is painted with radio active luminous material and is marked R. This is used when light is not available or is prohibited. The disk can be turned by means of a knob on the back of the case.

CHARACTERISTICS:

Dimensions . . . . . approximately 2 3/8 by 3 1/8 by 2 1/8 inches  
Weight . . . . . approximately 3/5 pound  
Pressure range . . . . . 0 to 500 pounds per square inch

RELATIONSHIP OF PARTS: Used with:

Low pressure diluter demand oxygen regulator, Army type A-12, A. E. Reference Number 46-2350

#### ARMY

A. E. REFERENCE NUMBER: 46-1500

SPECIFICATIONS:

Detail . . . . . 40389

TYPE DESIGNATION: A-1

A. S. C. STOCK NUMBER: 5500513900

TECHNICAL ORDER NUMBER: 03-50-13

PRODUCTION STATUS: Not under procurement for initial installation; superseded by Army type A-3 oxygen flow indicator, A. E. Reference Number 46-1600

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S MODEL NUMBER: Sperti Incorporated, part number B-1

#### BRITISH

AMERICAN STORES REFERENCE NUMBER: 106D/230



### INDICATOR—OXYGEN FLOW

AN6029-1      FORMER ARMY TYPE A-3

NAMES: Oxygen flow indicator      Indicator assembly—automatic check flow oxygen (blinker)  
A-3 flow indicator      Indicator—oxygen system flow

DESCRIPTION: The AN6029 oxygen flow indicator provides visual indication of the proper functioning of the Army type A-12 low pressure diluter demand oxygen regulator. The indicator includes a bellows and shutter assembly. Decrease in oxygen pressure in the regulator, caused by inhalation, actuates the bellows, which close the shutters. During exhalation, the oxygen pressure in the regulator returns to normal, and the shutters return to their open position. A change of 1/2 pound pressure in the bellows chamber caused by breathing will "blink" the shutters. The oxygen does not flow through the indicator itself, but is connected by a single line to the regulator; thus any failure or trouble in the flow indicator will not affect the oxygen supply to the user.

CHARACTERISTICS:

Dimensions..... approximately 2 3/8 inches wide by 2 3/8 inches high by 2 1/2 inches deep  
Weight..... approximately 3/5 pound  
Pressure range..... 0 to 500 pounds

RELATIONSHIP OF PARTS: Used with:

Low pressure demand oxygen regulator, Army type A-12, A. E. Reference Number 46-2350

#### ARMY

A. E. REFERENCE NUMBER: 46-1600

SPECIFICATIONS:

Detail..... AN-I-12  
Superseded..... 40427

AN DRAWING NUMBER: AN6029

TYPE DESIGNATION: A-3

A. S. C. STOCK NUMBER: 5500513975

TECHNICAL ORDER NUMBER: 03-50-19

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART AND DRAWING NUMBER: Delco Radio Division of General Motors Corp., 1506523

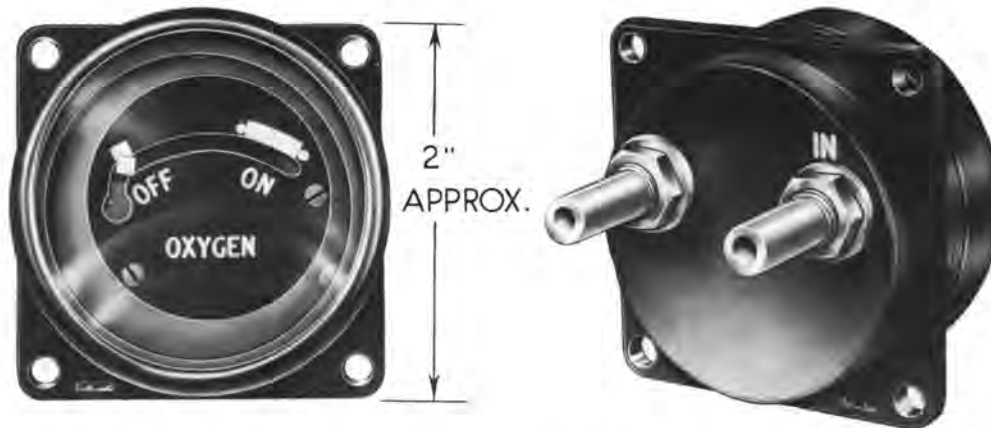
#### NAVY

PROCUREMENT STATUS: On airplanes procured from Army.

#### BRITISH

AMERICAN STORES REFERENCE NUMBER: 106D/231





**INDICATOR—OXYGEN FLOW**  
**BRITISH MARK III**

NAMES: Oxygen flow indicator  
Indicator assembly—oxygen flow

Vane type flow indicator

DESCRIPTION: This vane type oxygen flow indicator is used in installations having four or more breathing positions. It indicates that oxygen is flowing to the bayonet union socket or to the oxygen economizer. It is designed for mounting on the instrument panel, and has its inlet and outlet tubes on the back of the case.

This instrument is an indicator only and does not measure oxygen flow.

CHARACTERISTICS:

Dimensions.....approximately 2½ by 2½ by 1½ inches  
Weight.....approximately 7 ounces

**ARMY**

A. E. REFERENCE NUMBER: 46-1630 (former A. E. Reference Number 97-3140)

TYPE DESIGNATION: British Mark III

A. S. C. STOCK NUMBER: 5500513928

TECHNICAL ORDER NUMBER: 03-50-18

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit

**BRITISH**

AIR MINISTRY SPECIFICATION: 0.111

AIR MINISTRY DRAWING NUMBER: W7946 and S. I. S. 2603

TYPE DESIGNATION: Mark III

BRITISH STORES REFERENCE NUMBER: 6D/430

AMERICAN STORES REFERENCE NUMBER: 106D/27





### SIGNAL—LOW PRESSURE OXYGEN WARNING

ARMY TYPE G-1

NAVY—SEE BELOW

NAMES: Low pressure oxygen warning signal  
Signal assembly—oxygen pressure

Warning signal  
Oxygen warning signal

DESCRIPTION: This low pressure oxygen warning signal indicates when the oxygen supply is running low. It consists of a Bourdon type tube which makes an electrical contact when the pressure in the oxygen supply line drops down to 100 pounds per square inch. When contact is made, current flows to the instrument panel and lights the amber indicator light assembly, to warn the user.

CHARACTERISTICS:

- Dimensions . . . . . approximately 2 inches diameter by 2 1/4 inches long
- Weight . . . . . approximately 4 7/10 ounces
- Pressure range . . . . . 0 to 500 pounds per square inch
- Pressure setting . . . . . 100 pounds per square inch

RELATIONSHIP OF PARTS: Used with:

- Electrical connector straight plug, type PA, A. E. Reference Number 42-6095
- and
- Amber indicator light assembly, A. E. Reference Number 42-3400

#### ARMY

A. E. REFERENCE NUMBER: 46-2450

SPECIFICATIONS:

Detail . . . . . 94-32376

TYPE DESIGNATION: G-1

A. S. C. STOCK NUMBER: Refer to column 5 of the chart.

TECHNICAL ORDER NUMBER: Refer to column 6 of the chart.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
**Models are used in services as noted in column 4**  
**A-Army, N-Navy, B-British, C-Commercial**

Manufacturer	Manufacturer's Model Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	American Stores Reference Number
General Electric Co.	B70P1	5718612GR-1	A-B	5500786500	None	106D/195
F. A. Smith Manufacturing Co., Inc.	1500-1	1500-1	A-B	5500786500	03-50-11	106D/195



### SIGNAL—HIGH PRESSURE OXYGEN WARNING

AN6019-1 FORMER ARMY TYPE G-2

NAMES: High pressure oxygen warning signal	Warning signal
Signal assembly—oxygen pressure	Oxygen warning signal
Signal—oxygen warning (high pressure system)	G-2 pressure signal

DESCRIPTION: This high pressure oxygen warning signal indicates when the oxygen supply is running low. It consists of a Bourdon type tube which makes electrical contact when the pressure in the oxygen supply line drops down to 400 pounds per square inch. When contact is made, current flows to the instrument panel and lights the amber indicator light assembly, to warn the user.

CHARACTERISTICS:

Dimensions .....	approximately 2 inches diameter by 2 1/4 inches long
Weight .....	approximately 4 9/10 ounces
Pressure Range .....	0 to 1800 pounds per square inch
Pressure Setting .....	400 pounds per square inch

RELATIONSHIP OF PARTS: Used with:

Electrical connector straight plug, type PA, A. E. Reference Number 42-6095 and Amber indicator light assembly, A. E. Reference Number 42-3400

#### ARMY

A. E. REFERENCE NUMBER: 46-2500

SPECIFICATIONS:

Detail .....	AN-S-21
Superseded .....	94-32377

AN DRAWING NUMBER: AN6019

TYPE DESIGNATION: G-2

A. S. C. STOCK NUMBER: 5500786600

PRODUCTION STATUS: Not under procurement for initial installation because of Army change to low pressure system.

SHIPPING DATA: Shipped as a complete unit.

#### NAVY

PROCUREMENT STATUS: Not under procurement.



### TUBE—DEMAND MASK TO REGULATOR

AN6003 NAVY—SEE BELOW

NAMES: Demand mask to regulator tube  
Feeder hose

Tube assembly—oxygen mask regulator  
Tube assembly—oxygen mask to regulator

DESCRIPTION: This demand mask to regulator tube conveys oxygen from an Army type A-12 diluter demand oxygen regulator to a demand type mask. The low pressure flexible tube is attached to the regulator outlet at one end. On the other end is a female tube fitting, Army part number 42B5341-2. The fitting includes a clothes clip, which is used to attach the tube to the user's shirt front. The male mask fitting, Army part number 42B5341-1, on the end of the mask hose, is inserted into the female fitting of the tube to form the connection. The length of the tube used depends upon the installation.

CHARACTERISTICS: See chart below.

RELATIONSHIP OF PARTS: Used with:

Diluter demand oxygen regulator, Army type A-12, A. E. Reference Number 46-2350

#### ARMY

A. E. REFERENCE NUMBER: Refer to column 3 of chart.

SPECIFICATIONS:

Detail.....AN-T-23  
Superseded.....40387-A

AN DRAWING NUMBER: AN6003

A. S. C. STOCK NUMBER: Refer to column 4 of chart.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit. Female tube fitting, Army part number 42B5341-2 or AN6002-1. Supplied to the manufacturer for assembling.

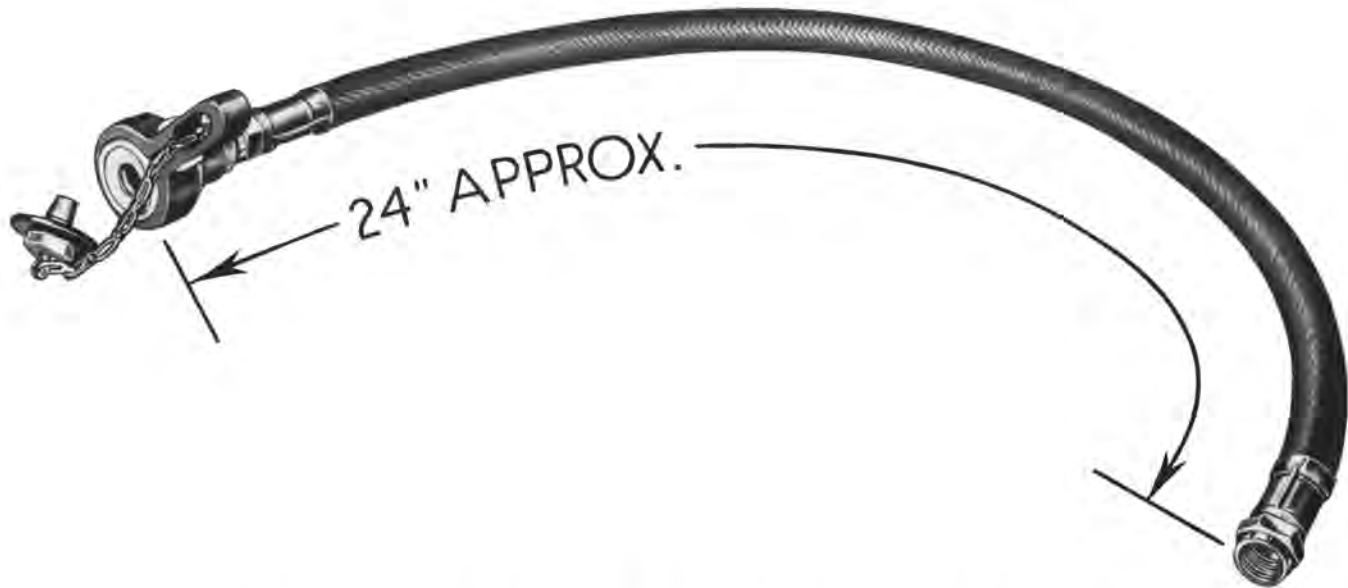
#### NAVY

PROCUREMENT STATUS: On airplanes procured from Army.

DEMAND MASK TO REGULATOR TUBE CHART

Manufacturer	Manufacturer's Model Number	A. E. Reference Number	AN Part Number	Approx. Length (feet)	Approx. Weight (pounds)	A. S. C. Stock Number
Republic Rubber Division of Lee Rubber & Tire Corp.	POH-8481	46-2630	AN6003-3	1	$2\frac{2}{5}$	5500915725
		46-2640	AN6003-4	2	$5\frac{5}{8}$	5500915730
		46-2650	AN6003-1	4	$1\frac{1}{3}$	5500915750
Boston Woven Hose & Rubber Co.	2139-A	46-2700	AN-6003-2	6	$15\frac{5}{8}$	5500915800
		46-2720		8	$21\frac{2}{3}$	





## RECHARGER — WALK AROUND UNIT

ARMY DRAWING NUMBER 42D7261

NAMES: Walk-around unit recharger	Recharger hose
Recharger assembly—portable oxygen	Hose assembly
Recharger—portable cylinder oxygen 24 inches	Oxygen recharger
Portable refilling hose	

DESCRIPTION: The walk around unit recharger consists of a two foot length of flexible hose with a small metering opening and a low pressure oxygen filler valve, AN6024, on one end, and a union coupling on the other end. The union coupling end is connected to the oxygen supply line at any station in the airplane where crew movement is anticipated. When the walk around unit, A. E. Reference Number 46-725, requires recharging, the spout on the regulator is inserted into the low pressure oxygen filler valve of the recharger.

The metering opening, Army part number 42A19075, provides for gradual filling of the walk around unit and prevents overheating. By materially reducing the free pressure, it also prevents loss of oxygen during the coupling operation.

CHARACTERISTICS:

Length.....	approximately 24 inches
Weight.....	approximately 1 pound

### ARMY

A. E. REFERENCE NUMBER: 46-1850

A. A. F. DRAWING NUMBER: 42D7621

A. S. C. STOCK NUMBER: 5500717450

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: A. Schrader's Son Division of Scovill Manufacturing Company, Incorporated, part number 2460FA.



## RECHARGER—TURRET OXYGEN CYLINDER

ARMY DRAWING NUMBER 43B18436

NAMES: Turret oxygen cylinder recharger	Recharger assembly—portable oxygen
Recharger—portable cylinder oxygen 48 inches	Recharger—oxygen turret

DESCRIPTION: This recharger is used to recharge low pressure oxygen cylinders installed in gun turrets. It consists of a four-foot length of flexible hose with a low pressure oxygen filler valve, AN6024, on one end, and a union coupling on the other. The union coupling end is connected to the oxygen supply line of the airplane.

CHARACTERISTICS:

Length.....	approximately 48 inches
Weight.....	approximately 1½ pounds

### ARMY

A. E. REFERENCE NUMBER: 46-1875

A. A. F. DRAWING NUMBER: 43B18436

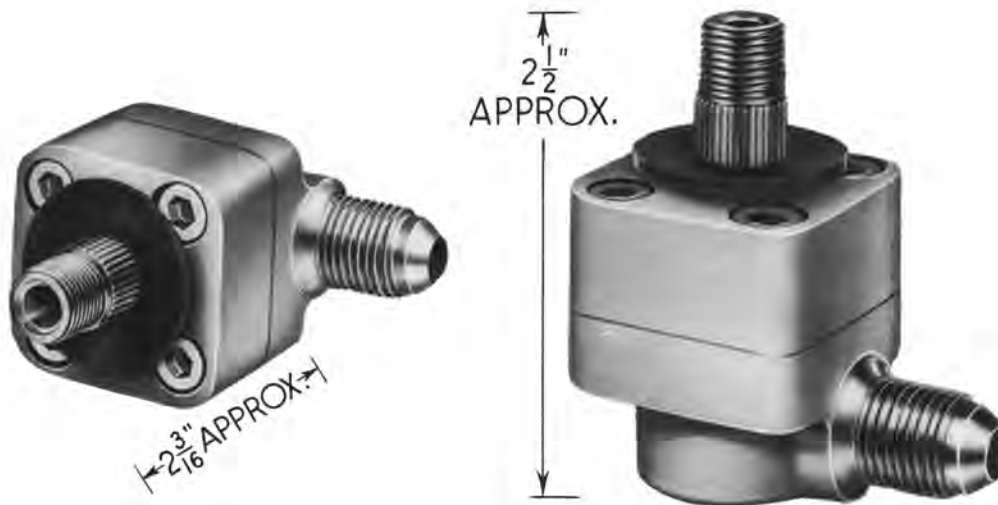
A. S. C. STOCK NUMBER: 5500717475

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: A. Schrader's Son Division of Scovill Manufacturing Company, Inc., 2461GW.

MANUFACTURER'S DRAWING NUMBER: A. Schrader's Son Division of Scovill Manufacturing Company, Inc., drawing number 2461.



### JOINT—OXYGEN SWIVEL

NAMES: Oxygen swivel joint  
Barco swivel joint  
Gland  
Joint—swivel

Joint—swivel low pressure for turret oxygen  
Rotating joint  
Rotating pressure joint  
Swivel joint

DESCRIPTION: This oxygen swivel joint is used to convey an oxygen supply line to an Army type A-12 low pressure diluter demand oxygen regulator which is installed in a rotating gun turret. The use of this oxygen swivel joint eliminates the necessity of installing separate oxygen cylinders in gun turrets.

CHARACTERISTICS:

- Dimensions . . . . . approximately  $2\frac{5}{16}$  inches high
- Connections . . . . .  $\frac{1}{8}$  inch standard external pipe thread
- Weight . . . . . approximately 8 ounces

#### ARMY

A. E. REFERENCE NUMBER: 46-1635

SPECIFICATIONS:

Detail . . . . . 40496

A. S. C. STOCK NUMBER: 5500523000

PRODUCTION STATUS: Not under procurement for initial installation.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: Barco Manufacturing Company, SK-1998.

#### NAVY

TYPE DESIGNATION: There is no Navy equivalent for this item.



### JOINT—OXYGEN SWIVEL

NAMES: Oxygen swivel joint	Rotating joint
Gland	Rotating pressure joint
Joint—swivel	Scovill swivel joint
Joint—swivel low pressure for turret oxygen	Swivel joint

DESCRIPTION: This oxygen swivel joint is used to convey an oxygen supply line to an Army type A-12 low pressure diluter demand oxygen regulator, installed in a rotating gun turret. Its use eliminates the installation of low pressure oxygen cylinders in gun turrets.

CHARACTERISTICS:

Dimensions .....	approximately 2 <sup>5</sup> / <sub>16</sub> inches high
Connections .....	1/8 inch standard internal pipe thread
Weight .....	approximately 13 ounces

#### ARMY

A. E. REFERENCE NUMBER: 46-1640

SPECIFICATIONS:

Detail ..... 40496

A. S. C. STOCK NUMBER: 5500524000

PRODUCTION STATUS: Not under procurement for initial installation.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: A. Schrader's Son Division of Scovill Manufacturing Company, Incorporated, 9361-B.

#### NAVY

There is no Navy equivalent for this item.





MISCELLANEOUS EQUIPMENT  
OXYGEN EQUIPMENT SECTION



← 2 1/4" APPROX. →

**COUPLING — AUTOMATIC OXYGEN**

**AN6009-1**

NAMES: Automatic oxygen coupling  
Automatic coupling  
Fitting assembly

Fitting assembly—oxygen automatic coupling  
Oxygen coupling

DESCRIPTION: The automatic oxygen coupling is installed in the supply line at each passenger station of a troop transport plane provided with a continuous flow oxygen system. When oxygen is needed, the bayonet fitting on the hose end of the continuous flow oxygen mask is inserted into the bayonet nipple end of the coupling. The coupling automatically shuts off when the bayonet fitting of the mask is removed from it.

CHARACTERISTICS:

Dimensions.....approximately 1 1/16 hex. by 2 7/32 inches long  
Weight.....approximately 1 ounce  
Thread.....1/2-20 NF-3

RELATIONSHIP OF PARTS: Used in conjunction with low pressure automatic continuous flow oxygen regulator, Army type A-11, A. E. Reference Number 46-2300, and continuous flow oxygen mask, Army type A-8B, A. E. Reference Number 46-1650.

**ARMY**

A. E. REFERENCE NUMBER: 46-1350

AN DRAWING NUMBER: AN6009 supersedes Army drawing 41A6006.

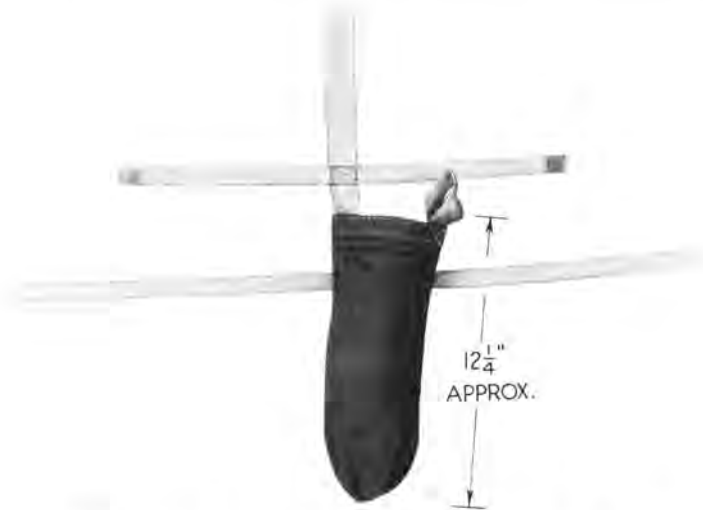
A. S. C. STOCK NUMBER: Refer to column 4 of the chart

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
**Models are used in services as noted in column 3**  
**A-Army, N-Navy, B-British, C-Commercial**

Manufacturer	Manufacturer's Part Identification	Used By	Air Service Command Stock Number
A. Schrader's Son	2155	A	5500391660
Ohio Chemical and Manufacturing Co.	22690A	A	5500391660



### SLING—HIGH PRESSURE OXYGEN WALK AROUND UNIT

ARMY DRAWING NUMBER 40J7613

NAMES: High pressure oxygen walk around unit sling	
Sling assembly—oxygen portable high pressure	Oxygen sling
Sling assembly for portable cylinder	Sling assembly
Sling assembly—breathing oxygen portable apparatus	

DESCRIPTION: The high pressure oxygen walk around unit supplies oxygen to the wearer where no other facilities are available, when it is necessary to walk around in an airplane at high altitudes. The sling is a cotton duck sack, used to house an Army type A-2 high pressure oxygen walk around cylinder fitted with an Army type A-8A high pressure continuous flow oxygen regulator.

CHARACTERISTICS:

Dimensions	approximately 3 3/4 inches wide by 12 1/4 inches high
Weight:	approximately 3 ounces
Material	cotton duck

RELATIONSHIP OF PARTS: Used with:

High pressure oxygen walk around cylinder, Army type A-2, A. E. Reference Number 46-850 and high pressure continuous flow oxygen regulator, Army type A-8A, A. E. Reference Number 46-2000.

#### ARMY

A. E. REFERENCE NUMBER: 46-2550  
 A. A. F. DRAWING NUMBER: 40J7613  
 A. S. C. STOCK NUMBER: 5500804520

PRODUCTION STATUS: Not under procurement for initial installation because of Army change to low pressure systems.

SHIPPING DATA: Shipped as a complete unit.



### SLING—HIGH PRESSURE OXYGEN PORTABLE UNIT

ARMY DRAWING NUMBER 41J9674

NAMES:	High pressure oxygen portable unit sling	Oxygen sling
	Sling assembly—oxygen portable high pressure	Sling assembly
	Sling assembly—breathing oxygen portable apparatus	

DESCRIPTION: This high pressure oxygen portable unit sling is a cotton duck sack used to house an Army type B-1 high pressure cylinder fitted with an Army type A-8A high pressure continuous flow oxygen regulator. The sack has straps by which the unit is suspended. The complete unit comprises a portable oxygen supply for training planes having no built-in oxygen system; it is not intended for use as a walk around unit.

CHARACTERISTICS:

Dimensions	approximately 5½ inches wide by 17¼ inches high
Weight	approximately 4 ounces
Material	cotton duck

RELATIONSHIP OF PARTS: Used with:

High pressure oxygen cylinder, Army type B-1, A. E. Reference Number 46-950 and high pressure continuous flow oxygen regulator, Army type A-8A, A. E. Reference Number 46-2000.

#### ARMY

A. E. REFERENCE NUMBER: 46-2600

A. A. F. DRAWING NUMBER: 41J9674

A. S. C. STOCK NUMBER: 5500804540

PRODUCTION STATUS: Not under procurement for initial installation because of Army change to low pressure systems.

SHIPPING DATA: Shipped as a complete unit.

MISCELLANEOUS EQUIPMENT  
OXYGEN EQUIPMENT SECTION



**ECONOMIZER - OXYGEN**  
**BRITISH MARK II**

NAMES: Oxygen economizer  
Mark II economizer

DESCRIPTION: The oxygen economizer, Mark II, reduces the quantity of oxygen used by releasing it only upon demand. Oxygen is supplied to the mask during inhalation only, the oxygen flowing from a regulator being stored in a reservoir bag during exhalation. This action is automatically controlled by a valve which is opened by the suction of inhalation. In case of an emergency, the reservoir outlet bag will automatically trip when the bag is full, thus supplying oxygen to the user.

The regulator is connected to a British type E or G oxygen mask by means of flexible tubing, Mark V, and a bayonet union socket, Mark IV. When the economizer is not in use, the bayonet union socket on the end of the flexible tubing is inserted in the clamp of a cut off valve, Mark I, thus stopping the flow from the regulator to the economizer.

High pressure oxygen regulators Mark VIII C, VIII D, X, XA and oxygen manifold, Mark IA, are used with this economizer.

CHARACTERISTICS:

Dimensions . . . . . approximately 11 1/2 inches long by 5 1/2 inches wide

Weight . . . . . approximately 2 1/2 pounds

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
High pressure oxygen regulator, Mark VIII C or	6D/513	106D/75	46-2375
High pressure oxygen regulator, Mark VIII D or	6D/525	106D/141	
High pressure oxygen master regulator, Mark X or	6D/231	106D/24	46-2385
High pressure oxygen master regulator, Mark XA and	6D/514	106D/142	
Oxygen manifold, Mark IA	6D/515	106D/143	46-1645
Cut off valve, Mark I	6D/480	106D/144	46-2875
Bayonet union socket, Mark IV and	6D/527	106D/151	46-2615
Flexible tubing, Mark V, 5'	6D/531	106D/148	46-2730
or			
Flexible tubing, Mark V, 7'	6D/532	106D/149	46-2733
or			
Flexible tubing, Mark V, 9'	6D/533	106D/150	46-2735

**ARMY**

A. E. REFERENCE NUMBER: 46-1340 (Former A. E. Reference Number 97-2300)

TYPE DESIGNATION: British Mark II

A. S. C. STOCK NUMBER: 5500375500

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATION: 0.120

AIR MINISTRY DRAWING NUMBER: W8221 and S. I. S. 2606

TYPE DESIGNATION: Mark II

BRITISH STORES REFERENCE NUMBER: 6D/479

AMERICAN STORES REFERENCE NUMBER: 106D/76



**TUBING — FLEXIBLE**  
**BRITISH MARK V**

NAMES: Flexible tubing  
Flexible supply tube

Mark V flexible tubing  
Tubing—rubber reinforced

DESCRIPTION: This flexible tubing, Mark V, is used to convey oxygen from an oxygen economizer, Mark II, to a British type E or G oxygen mask. It is attached to the economizer outlet by means of a wire clip which slips over the tubing end. It is attached to the mask hose end by means of a bayonet union socket, Mark IV. The length of tubing used depends upon the installation.

CHARACTERISTICS:

Dimensions . . . . .  $1\frac{19}{32}$  inch inside diameter;  $\frac{3}{32}$  inch wall thickness

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Oxygen economizer, Mark II and Bayonet union socket, Mark IV	6D/479	106D/76	46-1340
	6D/527	106D/151	46-2615

**ARMY**

A. E. REFERENCE NUMBER: See column 1 of chart

TYPE DESIGNATION: British Mark V

A. S. C. STOCK NUMBER: See column 4 of chart

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATION: 0.122

AIR MINISTRY DRAWING NUMBER; W8304

TYPE DESIGNATION: Mark V

A. E. Reference Number	British Stores Reference Number	American Stores Reference Number	A. S. C. Stock Number	Length
46-2730	6D/531	106D/148	5500928525	5 foot
46-2733	6D/532	106D/149	5500928550	7 foot
46-2735	6D/533	106D/150	5500928575	9 foot



### MANIFOLD—OXYGEN BRITISH MARK I

NAMES: Oxygen manifold

Mark I oxygen manifold

DESCRIPTION: The oxygen manifold, Mark I, is used to distribute oxygen flowing from the common supply line of a Mark X master regulator to four individual supply lines. It consists of four fixed metering jets, each designed to pass a specific volume of oxygen at a given pressure. Fluctuation of the oxygen pressure flowing from the regulator varies the amount of oxygen passing through the jet. Each jet is proportioned to supply a quantity of oxygen sufficient for one man. When use of any of the jets is not required, it may be closed off by a blanking cap.

CHARACTERISTICS:

Material.....	aluminum alloy or brass
Weight.....	approximately 3 ounces (aluminum alloy), 7 ounces (brass)
Dimensions.....	approximately 3 3/4 by 1 1/2 by 4 1/64 inches
Threads.....	1/2-26 British form

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
High pressure oxygen master regulator, Mark X	6D/231	106D/24	46-2385
Blanking cap	6D/428	106D 31	46-690

#### ARMY

A. E. REFERENCE NUMBER: 46-1643 (Former A. E. Reference Number 97-4330)  
 TYPE DESIGNATION: British Mark I  
 A. S. C. STOCK NUMBER: 5500552150  
 PRODUCTION STATUS: Under procurement.  
 SHIPPING DATA: Shipped as a complete unit.

#### BRITISH

AIR MINISTRY SPECIFICATION: 0.107  
 AIR MINISTRY DRAWING NUMBER: H-19274-1 and S. I. S. 2602  
 TYPE DESIGNATION: Mark I  
 BRITISH STORES REFERENCE NUMBER: 6D 251  
 AMERICAN STORES REFERENCE NUMBER: 106D 25





### CAP—OXYGEN BLANKING

NAMES: Oxygen blanking cap  
Cap—blanking

Cap—shipping and storage

DESCRIPTION: This oxygen blanking cap is used in conjunction with the manifold in British low pressure aircraft oxygen systems. The cap consists of two parts: a cap body, and a synthetic rubber sealing washer. It is provided with 1/2-26 internal threads (Whitworth form), which attach to the Mark I or Mark IA manifold connections for blanking off purposes when any manifold connection is inactive.

CHARACTERISTICS:

Material.....	dural body with synthetic rubber washer
Dimensions.....	approximately 13/32 by 19/32 inches
Weight.....	approximately 1/16 pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Manifold, Mark I or Manifold, Mark IA	6D/251	106D/25	46-1643
	6D/515	106D/143	46-1645

#### ARMY

A. E. REFERENCE NUMBER: 46-690 (former A. E. Reference No. 97-900)  
A. S. C. STOCK NUMBER: 5500182800  
PRODUCTION STATUS: Under procurement.  
SHIPPING DATA: Shipped as a complete unit including a synthetic rubber washer.

#### BRITISH

AIR MINISTRY SPECIFICATION: 0.113  
AIR MINISTRY DRAWING NUMBER: Z7854  
TYPE DESIGNATION: None  
BRITISH STORES REFERENCE NUMBER: 6D/428  
AMERICAN STORES REFERENCE NUMBER: 106D/31  
MANUFACTURER'S PART NUMBER: The Weatherhead Company 203626





## SOCKET-BAYONET UNION

### BRITISH MARK IIIA

NAMES: Bayonet union socket

Socket—oxygen bayonet union

DESCRIPTION: The bayonet union socket, Mark IIIA, is used with a bayonet union plug, Mark IIIB, which is attached to the hose end of a British type D oxygen mask. This socket and plug form a bayonet union, which enables a crew member to quickly connect or disconnect his type D oxygen mask from the source of oxygen supply. It has no internal valve and is used when only one oxygen supply station is required. This type of bayonet union socket is used in an oxygen installation which does not include an oxygen economizer.

CHARACTERISTICS:

Dimensions . . . . .	approximately 1 inch outside diameter by 1 3/4 inches high
Weight . . . . .	approximately 4 1/2 ounces

### ARMY

A. E. REFERENCE NUMBER: 46-2610 (former A. E. Reference Number 97-8110)

TYPE DESIGNATION: British Mark IIIA

A. S. C. STOCK NUMBER: 5500804800

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

### BRITISH

AIR MINISTRY SPECIFICATION: 0.88

AIR MINISTRY DRAWING NUMBER: Z5594 and S. I. S. 590

TYPE DESIGNATION: Mark IIIA

BRITISH STORES REFERENCE NUMBER: 6D/83

AMERICAN STORES REFERENCE NUMBER: 106D/4



**SOCKET—BAYONET UNION**  
**BRITISH MARK IIIB**

NAMES: Bayonet union socket  
Socket—oxygen bayonet union

DESCRIPTION: The bayonet union socket, Mark IIIB, is used with a bayonet union plug, Mark IIIB, which is attached to the hose end of a British type D oxygen mask. This socket and plug form a bayonet union which enables a crew member to quickly connect or disconnect his type D oxygen mask from the source of oxygen supply. The socket has an internal valve which automatically closes when the mask plug is withdrawn. It is used when more than one oxygen supply station is required. The valve is designed to leak slightly to prevent accumulation of oxygen pressure in a Mark VIIIA\* or Mark VIIIB regulator when none of the supply stations are in use.

This type of bayonet socket is used in an oxygen installation which does not include an oxygen economizer.

CHARACTERISTICS:

Dimensions.....approximately 1 inch outer diameter by 1 3/4 inches high  
Weight.....approximately 4 1/2 ounces

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
High pressure oxygen regulator, Mark VIIIA* or	6D/124	106D/22	46-2370
High pressure oxygen regulator, Mark VIIIB	6D/476	106D/46	46-2371

**ARMY**

A. E. REFERENCE NUMBER: 46-2612  
TYPE DESIGNATION: British Mark IIIB  
A. S. C. STOCK NUMBER: 5500804850  
PRODUCTION STATUS: Under procurement.  
SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATION: 0.88  
AIR MINISTRY DRAWING NUMBER: W5569 and S. I. S. 590  
TYPE DESIGNATION: Mark IIIB  
BRITISH STORES REFERENCE NUMBER: 6D/112  
AMERICAN STORES REFERENCE NUMBER: 106D/5



**SOCKET — BAYONET UNION**  
**BRITISH MARK IIIC**

NAMES: Bayonet union socket  
Socket—oxygen bayonet union

DESCRIPTION: The bayonet union socket, Mark IIIC, is used with a bayonet union plug, Mark IIIB, which is connected to the hose end of a British type D oxygen mask. This socket and plug form a bayonet union which enables a crew member to quickly connect or disconnect his type D oxygen mask from the source of oxygen supply. The socket has an internal valve which automatically closes when the mask plug is withdrawn. It is used when more than one oxygen supply station is required. The valve is designed not to leak; therefore, this socket must be used with Mark X or XA regulators, which are sturdy enough to withstand a pressure accumulation.

This type of bayonet socket is used in an oxygen installation which does not include an oxygen economizer.

CHARACTERISTICS:

Dimensions.....approximately 1 inch outer diameter by 1 3/4 inches high  
Weight.....approximately 4 1/2 ounces

RELATIONSHIP OF PARTS: Used with:

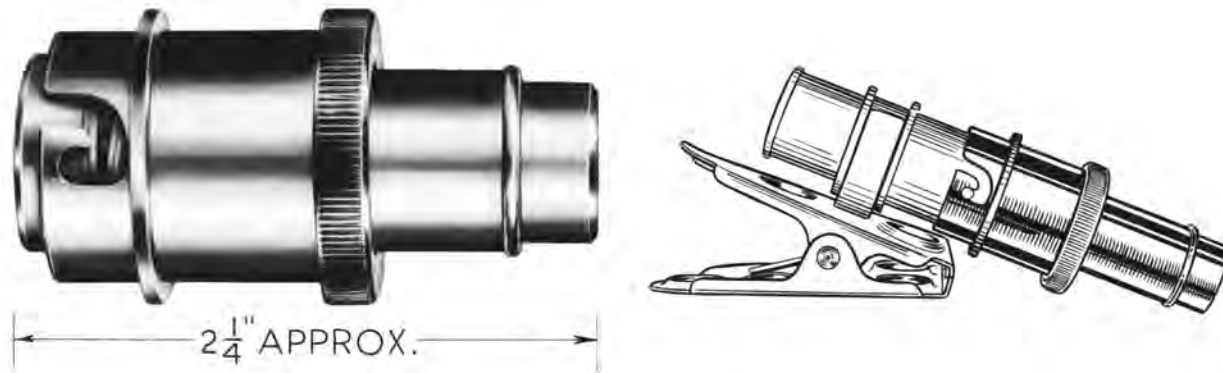
Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
High pressure oxygen master regulator, Mark X or High pressure oxygen master regulator, Mark XA	6D/231  6D/514	106D/24  106D/142	46-2385

**ARMY**

A. E. REFERENCE NUMBER: 46-2613  
TYPE DESIGNATION: British Mark IIIC  
PRODUCTION STATUS: Under procurement  
SHIPPING DATA: Shipped as a complete unit

**BRITISH**

AIR MINISTRY SPECIFICATION: 0.88  
AIR MINISTRY DRAWING NUMBER: W5569 and S. I. S. 590  
TYPE DESIGNATION: Mark IIIC  
BRITISH STORES REFERENCE NUMBER: 6D/534  
AMERICAN STORES REFERENCE NUMBER: 106D/145



### SOCKET - BAYONET UNION

#### BRITISH MARK IV

NAMES: Bayonet union socket  
Socket—oxygen bayonet union

DESCRIPTION: The bayonet union socket, Mark IV, attached to the end of the flexible tubing, Mark V, is used with a bayonet union plug, Mark IV, which is at the hose end of a British type E or G oxygen mask. This socket and plug form a bayonet union, which enables a crew member to quickly connect or disconnect his type E or G oxygen mask from the flexible tubing outlet of an oxygen economizer.

If it is desired to change from one oxygen outlet to another, the user disconnects his mask hose and stows the socket of the flexible tubing in a cut off valve, Mark I, automatically stopping the oxygen flow to the economizer for that station.

The bayonet union plug on the end of the mask hose has a clip to attach the hose to the user's shirt front.

CHARACTERISTICS:

Dimensions..... approximately 1 inch outer diameter by 2 1/8 inches long  
Weight..... approximately 2 1/8 ounces

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Flexible tubing, Mark V, 5' or	6D/531	106D/148	46-2730
Flexible tubing, Mark V, 7' or	6D/532	106D/149	46-2733
Flexible tubing, Mark V, 9' and	6D/533	106D/150	46-2735
Cut off valve, Mark I	6D/480	106D/144	46-2875

#### ARMY

A. E. REFERENCE NUMBER: 46-2615 (former A. E. Reference Number 97-8215)

TYPE DESIGNATION: British Mark IV

A. S. C. STOCK NUMBER: 5500804875

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

#### BRITISH

AIR MINISTRY SPECIFICATION: 0.124

AIR MINISTRY DRAWING NUMBER: W8256 and S. I. S. 2608

TYPE DESIGNATION: Mark IV

BRITISH STORES REFERENCE NUMBER: 6D/527

AMERICAN STORES REFERENCE NUMBER: 106D/151



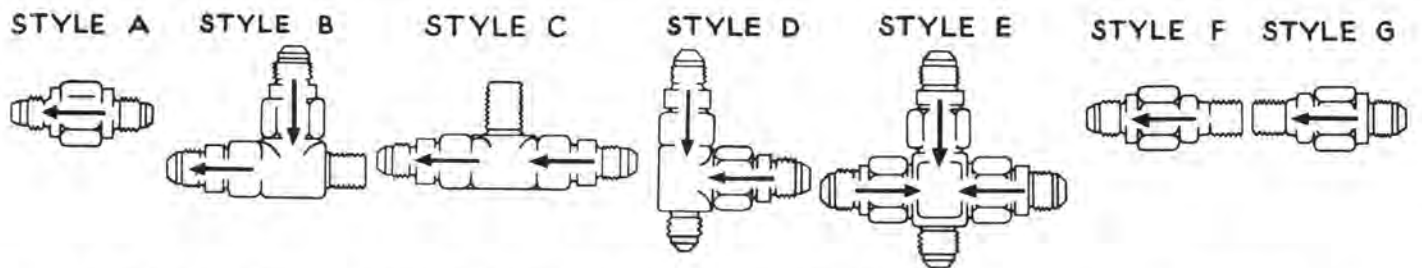
# OXYGEN VALVES

The various kinds of valves used in aircraft oxygen systems are for recharging cylinders and starting, stopping, and regulating the flow of gaseous oxygen. These valves are divided into two groups: low pressure and high pressure.

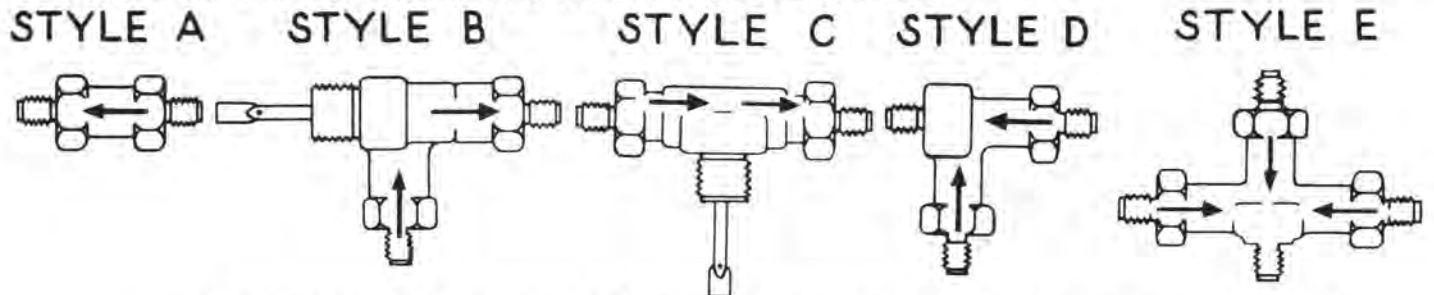
American low pressure oxygen systems use  $\frac{5}{16}$  inch outside diameter aluminum alloy tubing, and American high pressure systems use  $\frac{3}{16}$  inch outside diameter copper tubing. Valves are constructed to correspond to the proper tube size fittings. The tube fitting threads are in accordance with Army-Navy specification AN-GGG-S-126, and pipe fittings conform to Army-Navy specification AN-GGG-P-363.

Oxygen valves include the following: check valves, filler valves, line valves, relief valves, reduction valves, cut-off valves.

## (a) CHECK VALVES—AMERICAN LOW PRESSURE OXYGEN



## CHECK VALVES—AMERICAN HIGH PRESSURE OXYGEN

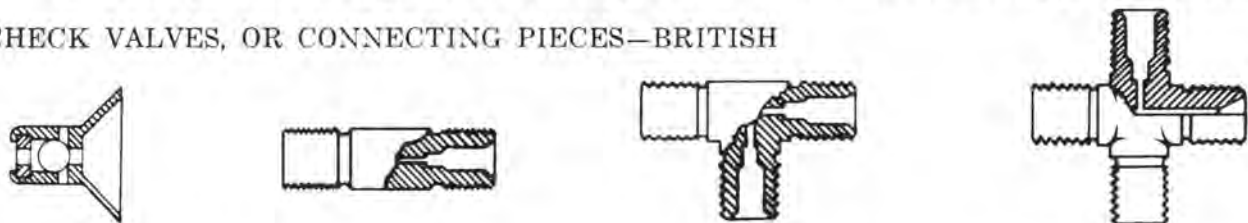


Check valves allow oxygen to flow in a predetermined direction and prevent excessive loss of oxygen if part of the system is damaged. Should one or more cylinders, or any part of the supply line up to a check valve be damaged, the flow of oxygen in the reverse direction is prevented and leakage stopped. Check valves are marked with arrows to indicate the direction of flow. Flow in any other direction is impossible. The American oxygen check valves are of several types:

- straight, single check;
- tee, or three-way, dual check;
- cross, or four-way, triple check

These are placed in strategic parts of the oxygen line in accordance with the oxygen installation.

## (b) CHECK VALVES, OR CONNECTING PIECES—BRITISH



NON-RETURN MARK I (ENLARGED VIEW)    CONNECTING PIECE 2 WAY, MARK III A    CONNECTING PIECE 3 WAY, MARK III A    CONNECTING PIECE 4 WAY, MARK III A

(Continued on page 70)



## OXYGEN VALVES

*(Continued from page 69)*

In British high pressure oxygen systems, non-return or checking devices are used. Functionally, they are the same as American check valves. They consist of two-way, three-way, and four-way connectors called "Connecting pieces." These connecting pieces and the fittings used with them are provided with  $\frac{1}{4}$  inch straight pipe threads and  $\frac{1}{2}$ -26 threads known as "Whitworth form," which is the British standard form of thread similar to standard threads used in America. These connecting pieces are bored out to accommodate a Mark I non-return valve (A. E. Reference Number 46-2885). By installing one or more non-return valves in appropriate legs of the connecting piece, it may be used to allow flow in any desired direction, while preventing flow in the opposite direction.

### FILLER VALVES

Filler valves are used to recharge oxygen cylinders while installed in aircraft. They consist of two types, low pressure and high pressure. Functionally, they are the same the principal difference being in construction. The low pressure valve has a rapid connect (slip-in-fit) for an adapter connection. The high pressure valve has a threaded inlet and outlet connecting to a corresponding adapter.

Filler valves are located on the left side of the airplane fuselage behind a cover plate on the skin, approximately midway between the nose and tail at a height insuring accessibility from the ground.

### LINE VALVES

Line valves are used in troop transport aircraft to start or stop the flow of oxygen, and are installed in locations accessible to crew members. These valves are of the packless positive shut-off type and consist of a body with a female inlet and outlet, a hand-wheel marked with an arrow to indicate the open and closed positions, and a mounting bracket. These valves are used in either low or high pressure systems by inserting union nipples corresponding with the respective tube size fittings.

### RELIEF VALVES

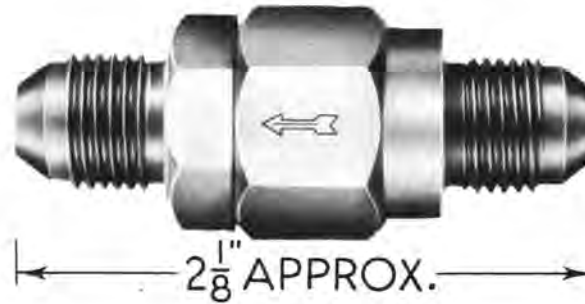
Relief valves are used to prevent the accumulation of dangerously high pressures in oxygen systems resulting from improper charging, or from expansion due to excessive changes in temperature. Relief valves are no longer used and those now in use will be discontinued as per Army Technical Order 03-50-22.

### REDUCTION VALVES

The pressure reduction valve is used to reduce the pressure of oxygen, flowing from high pressure cylinders, to the working pressure usable in a low pressure demand type system. It is provided with one inlet and two outlets. The valve is preset and fixed, and requires no adjustment in operation.

### CUT-OFF VALVES (BRITISH)

The cut-off valve is connected to the low pressure oxygen line in British Aircraft to prevent oxygen from flowing from the oxygen regulator to the economizer when the economizer is not in use.



## VALVE—LOW PRESSURE OXYGEN STRAIGHT SINGLE CHECK STYLE A

### TYPE I STYLE A

NAMES: Low pressure oxygen straight single check style A valve.	Oxygen single check valve
Low pressure oxygen single check valve	Valve assembly—oxygen check tube to tube

DESCRIPTION: This low pressure oxygen check valve, type I, style A, is a tube to tube, straight single check valve, and is provided with 1/2-20 NF-3 threads to connect with the oxygen line solderless fittings.

CHARACTERISTICS:

Dimensions . . . . .	approximately 1 1/16 by 2 1/8 inches
Weight . . . . .	approximately 1/32 pound

RELATIONSHIP OF PARTS: This valve is used where required in the low pressure oxygen lines in accordance with the installation.

### ARMY

A. E. REFERENCE NUMBER: 46-2750

SPECIFICATIONS:

General . . . . .	40325B
Superseded . . . . .	40325A

ARMY DRAWING NUMBER: 43A9021

TYPE DESIGNATION: Type I Style A

A. S. C. STOCK NUMBER: 5500932600

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: A. Schrader's Son 1668

### NAVY

There is no Navy equivalent for this item.



**VALVE—LOW PRESSURE OXYGEN TEE DUAL CHECK STYLE B**  
**TYPE I STYLE B**

NAMES: Low pressure oxygen tee dual check style B valve  
Oxygen tee dual check valve  
Valve assembly—oxygen dual check end pipe thread tee

DESCRIPTION: This low pressure oxygen tee dual check valve, type I, style B, is a tube to tube to pipe valve. One end of this valve has a 1/4 inch external pipe thread which threads into the oxygen cylinder spud. The two remaining ends have 1/2-20 NF-3 threads which connect to the oxygen line solderless fittings.

CHARACTERISTICS:  
Dimensions.....approximately 1 1/16 by 2 1/8 by 2 3/4 inches  
Weight.....approximately 1/8 pound

RELATIONSHIP OF PARTS: This valve is used where required in the low pressure oxygen lines, in accordance with the installation.

**ARMY**

A. E. REFERENCE NUMBER: 46-2755

SPECIFICATIONS:

General.....40325B  
Superseded.....40325A

ARMY DRAWING NUMBER: 43A9026

TYPE DESIGNATION: Type I, Style B

A. S. C. STOCK NUMBER: 5500955130

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: A. Schrader's Son 1669

**NAVY**

There is no Navy equivalent for the Army item.





**VALVE—LOW PRESSURE OXYGEN TEE DUAL CHECK STYLE C**  
**TYPE I STYLE C**

NAMES: Low pressure oxygen tee dual check style C valve  
Oxygen tee dual check valve  
Valve assembly—oxygen dual check, side pipe thread tee

DESCRIPTION: This low pressure oxygen tee dual check valve, type I, style C, is a tube to pipe to tube valve. The side of the valve is provided with a standard 1/4 inch external pipe thread which threads into the oxygen cylinder, while the two remaining ends have 1/2-20 NF-3 threads which connect to the oxygen line solderless fittings.

CHARACTERISTICS:

Dimensions ..... approximately 1 1/16 by 1 1/16 by 3 1/2 inches  
Weight ..... approximately 1/8 pound

RELATIONSHIP OF PARTS: This valve is used where required in the low pressure oxygen lines in accordance with the installation.

**ARMY**

A. E. REFERENCE NUMBER: 46-2760

SPECIFICATIONS:

General ..... 40325B  
Superseded ..... 40325A

ARMY DRAWING NUMBER: 43A9028

TYPE DESIGNATION: Type I, Style C

A. S. C. STOCK NUMBER: 5500932650

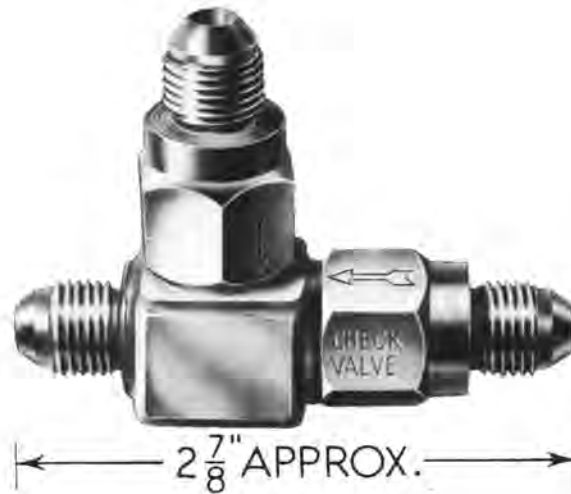
PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: A. Schrader's Son 2288

**NAVY**

There is no Navy equivalent for the Army item.



**VALVE—LOW PRESSURE OXYGEN TEE DUAL CHECK STYLE D**  
**TYPE I STYLE D**

NAMES: Low pressure oxygen tee dual check style D valve  
Valve assembly—oxygen dual check tee

DESCRIPTION: This low pressure oxygen tee dual check valve type I, style D, is a three-way tube valve. The three ends are provided with 1/2-20 NF-3 threads which connect to the oxygen line solderless fittings.

CHARACTERISTICS:

Dimensions . . . . . approximately 7/8 by 2 1/8 by 2 1/8 inches  
Weight . . . . . approximately 1/8 pound

RELATIONSHIP OF PARTS: This valve is used where required in the low pressure oxygen line, in accordance with the installation.

**ARMY**

A. E. REFERENCE NUMBER: 46-2765

SPECIFICATIONS:

General . . . . . 40325B  
Superseded . . . . . 40325A

ARMY DRAWING NUMBER: 43A9030

TYPE DESIGNATION: Type I, Style D

A. S. C. STOCK NUMBER: 5500932700

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

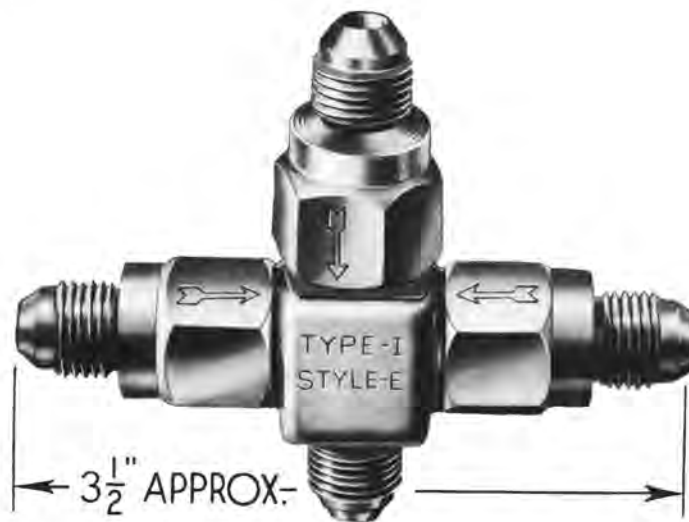
MANUFACTURER'S DRAWING NUMBER: A. Schrader's Son 2289

**NAVY**

There is no Navy equivalent for the Army item.

**BRITISH**

AMERICAN STORES REFERENCE NUMBER: 106D/225



### VALVE—LOW PRESSURE OXYGEN CROSS TRIPLE CHECK STYLE E

#### TYPE I STYLE E

NAMES: Low pressure oxygen cross triple check style E valve

Oxygen cross triple check valve  
Valve assembly—oxygen triple check cross

DESCRIPTION: This low pressure oxygen cross triple check valve, type I, style E, is a four-way tube valve. The four ends are provided with 1/2-20 NF-3 threads which connect to the oxygen line solderless fittings.

CHARACTERISTICS:

Dimensions . . . . . approximately 7/8 by 2 13/16 by 3 1/2 inches  
Weight . . . . . approximately 3/16 pound

RELATIONSHIP OF PARTS: This valve is used where required in the low pressure oxygen line system, in accordance with the installation.

#### ARMY

A. E. REFERENCE NUMBER: 46-2770

SPECIFICATIONS:

General . . . . . 40325B  
Superseded . . . . . 40325A

ARMY DRAWING NUMBER: 43A9032

TYPE DESIGNATION: Type I, Style E

A. S. C. STOCK NUMBER: 5500932710

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: A. Schrader's Son 2990

#### NAVY

There is no Navy equivalent for the Army item.



### VALVE—LOW PRESSURE OXYGEN STRAIGHT SINGLE CHECK STYLE F

#### TYPE I STYLE F

NAMES: Low pressure oxygen straight single check  
style F valve

Oxygen single check valve  
Valve assembly—oxygen check pipe thread to  
tube

DESCRIPTION: This low pressure oxygen single check valve is a straight pipe to tube valve, type I, style F. The pipe end is provided with  $\frac{1}{4}$  inch external pipe thread which threads into the oxygen cylinder spud. The other end has  $\frac{1}{2}$ -20 NF-3 threads, which connect to the oxygen line solderless fittings.

CHARACTERISTICS:

Dimensions..... approximately  $\frac{3}{4}$  by  $2\frac{1}{8}$  inches  
Weight..... approximately  $\frac{1}{16}$  pound

RELATIONSHIP OF PARTS: The pipe end is inserted in the outlet of the oxygen cylinder.

#### ARMY

A. E. REFERENCE NUMBER: 46-2775

SPECIFICATIONS:

General..... 40325B  
Superseded..... 40325A

ARMY DRAWING NUMBER: 43A9034

TYPE DESIGNATION: Type I, Style F

A. S. C. STOCK NUMBER: 5500932750

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: A. Schrader's Son 2291

#### NAVY

There is no Navy equivalent for the Army item.



### VALVE—LOW PRESSURE OXYGEN STRAIGHT SINGLE CHECK STYLE G

#### TYPE I STYLE G

NAMES: Low pressure oxygen straight single check style G valve  
Oxygen single check valve  
Valve assembly—oxygen check tube to pipe thread

DESCRIPTION: This low pressure oxygen straight single check valve, type I, style G, is a tube to pipe valve. One end has a 1/4 inch external pipe thread which connects to the oxygen cylinder inlet spud; the other end has 1/2-20 NF-3 threads which connect to the oxygen line solderless fitting.

CHARACTERISTICS:

Dimensions.....approximately 2 1/8 by 1 1/16 inches  
Weight.....approximately 3/4 ounce

RELATIONSHIP OF PARTS: This valve is used to recharge oxygen cylinders where they are manifolded.

#### ARMY

A. E. REFERENCE NUMBER: 46-2780

SPECIFICATIONS:

General.....40325B  
Superseded.....40325A

ARMY DRAWING NUMBER: 43A9036

TYPE DESIGNATION: Type I, Style G

A. S. C. STOCK NUMBER: 5500932760

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: A. Schrader's Son 2292

#### NAVY

There is no Navy equivalent for the Army item.

#### BRITISH

AMERICAN STORE'S REFERENCE NUMBER: 106D/226



### VALVE—HIGH PRESSURE OXYGEN STRAIGHT SINGLE CHECK STYLE A

AN6014-1

NAMES: High pressure oxygen straight single check style A valve      Oxygen straight single check valve  
Valve—high pressure oxygen check style A

DESCRIPTION: This high pressure oxygen straight single check valve is a straight tube-to-tube valve. Each end is provided with  $\frac{3}{8}$ -24 NF-3 threads which connect with the  $\frac{3}{16}$  inch outside diameter copper line fittings.

CHARACTERISTICS:

Material .....	brass
Dimensions .....	approximately $\frac{11}{16}$ by $1\frac{13}{16}$ inches
Weight .....	approximately $\frac{1}{8}$ pound

RELATIONSHIP OF PARTS: This valve is used where required in the high pressure oxygen system in accordance with the installation.

#### ARMY

A. E. REFERENCE NUMBER: 46-2850

SPECIFICATIONS:

General .....	AN-V-13
Superseded .....	40369

AN DRAWING NUMBER: AN6014

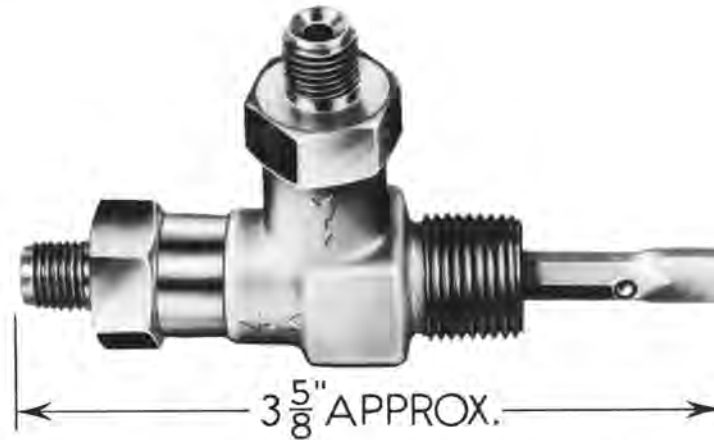
TYPE DESIGNATION: Style A

A. S. C. STOCK NUMBER: 5500957561

PRODUCTION STATUS: Not under procurement for initial installation, because of Army change to low pressure oxygen.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: Bastian-Blessing Co. 4340



**VALVE—HIGH PRESSURE OXYGEN TEE DUAL CHECK STYLE B**  
**AN6015-1**

NAMES: High pressure oxygen tee dual check style B valve    Oxygen tee dual check valve  
High pressure oxygen tee dual check valve    Valve—high pressure oxygen check style B

DESCRIPTION: This style B, high pressure oxygen tee dual check valve, is a pipe-to-tube-to-tube valve. The pipe end has 3/8 inch external pipe threads which connect to the cylinder fitting. Incorporated in the pipe end is a syphon or dip tube which prevents infiltration of oil or foreign matter. The remaining ends have 3/8-24 NF-3 threads which connect to the 3/8 inch outside diameter line fittings.

CHARACTERISTICS:

Material..... brass  
Dimensions..... approximately 1 1/16 by 2 by 3 9/16 inches  
Weight..... approximately 5/16 pound

RELATIONSHIP OF PARTS: Used in: The outlet spud of the high pressure oxygen cylinder.

**ARMY**

A. E. REFERENCE NUMBER: 46-2855

SPECIFICATIONS:

General..... AN-V-13  
Superseded..... 40369

AN DRAWING NUMBER: AN6015

AN PART NUMBER: AN6015-1

TYPE DESIGNATION: Style B

A. S. C. STOCK NUMBER: 5500957562

PRODUCTION STATUS: Not under procurement for initial installation, because of Army change to low pressure oxygen.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: Bastian-Blessing Co. 4341



**VALVE—HIGH PRESSURE OXYGEN TEE DUAL CHECK STYLE C**  
**AN6016-1**

NAMES: High pressure oxygen tee dual check style C valve    Valve—high pressure oxygen dual check side  
Oxygen tee dual check valve    pipe thread

DESCRIPTION: This high pressure oxygen tee dual check valve, style C, is a tube-to-pipe-to-tube valve. The tube ends are provided with 3/8-24 NF-3 threads which connect to the 3/16 inch outside diameter copper line fittings. The pipe end has 1/4 inch external pipe thread, which connects to the oxygen cylinder spud. The pipe end is also equipped with a syphon, or dip tube, which prevents the infiltration of oil or foreign matter.

CHARACTERISTICS:

Material . . . . . brass  
Dimensions . . . . . approximately 3 1/8 by 2 3/8 by 1 1/16 inches  
Weight . . . . . approximately 3/16 pound

RELATIONSHIP OF PARTS: This valve screws into the high pressure oxygen cylinder outlet spud.

**ARMY**

A. E. REFERENCE NUMBER: 46-2860

SPECIFICATIONS:

General . . . . . AN-V-13  
Superseded . . . . . 40369

AN DRAWING NUMBER: AN6016

AN PART NUMBER: AN6016-1

TYPE DESIGNATION: Style C

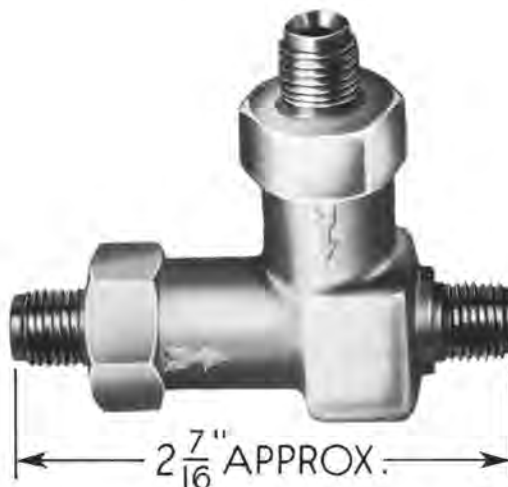
A. S. C. STOCK NUMBER: 5500957563

PRODUCTION STATUS: Not under procurement for initial installation, because of Army change to low pressure oxygen.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: Bastian-Blessing Co. 4342





**VALVE—HIGH PRESSURE OXYGEN TEE DUAL CHECK STYLE D**  
**AN6017-1**

NAMES: High pressure oxygen tee dual check style D valve      Valve—high pressure oxygen check style D  
Oxygen tee dual check valve

DESCRIPTION: This high pressure oxygen tee dual check valve, style D, is a three-way tube valve. The ends are provided with  $\frac{3}{8}$ -24 NF-3 threads which connect to  $\frac{3}{8}$  inch outside diameter copper line fittings.

CHARACTERISTICS:

Material . . . . . brass  
Dimensions . . . . . approximately  $1\frac{1}{16}$  by 2 by  $2\frac{7}{16}$  inches  
Weight . . . . . approximately  $\frac{1}{4}$  pound

RELATIONSHIP OF PARTS: This valve is used where required in the high pressure oxygen system in accordance with the installation.

**ARMY**

A. E. REFERENCE NUMBER: 46-2865

SPECIFICATIONS:

General . . . . . AN-V-13  
Superseded . . . . . 40369

AN DRAWING NUMBER: AN6017

AN PART NUMBER: AN6017-1

TYPE DESIGNATION: Style D

A. S. C. STOCK NUMBER: 5500957564

PRODUCTION STATUS: Not under procurement for initial installation, because of Army change to low pressure oxygen.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: Bastian-Blessing Co. 4343



### VALVE—HIGH PRESSURE OXYGEN CROSS TRIPLE CHECK STYLE E

AN6018-1

NAMES: High pressure oxygen cross triple check style E valve	High pressure oxygen check style E valve
Cross check	Oxygen cross triple check valve
	Valve—high pressure oxygen

DESCRIPTION: This high pressure oxygen cross triple check valve, style E, is a four-way tube valve. The four ends of the valve are provided with  $\frac{3}{8}$ -24 NF-3 threads, which connect to the  $\frac{3}{16}$  outside diameter copper line fittings.

CHARACTERISTICS:

Material .....	brass
Dimensions .....	approximately $\frac{11}{16}$ by $\frac{27}{16}$ by $3\frac{1}{8}$ inches
Weight .....	approximately $\frac{5}{16}$ pound

RELATIONSHIP OF PARTS: Used in:  
The high pressure oxygen system where required in accordance with the installation.

#### ARMY

A. E. REFERENCE NUMBER: 46-2870

SPECIFICATIONS:

General .....	AN-V-13
Superseded .....	40369

AN DRAWING NUMBER: AN6018

AN PART NUMBER: AN6018-1

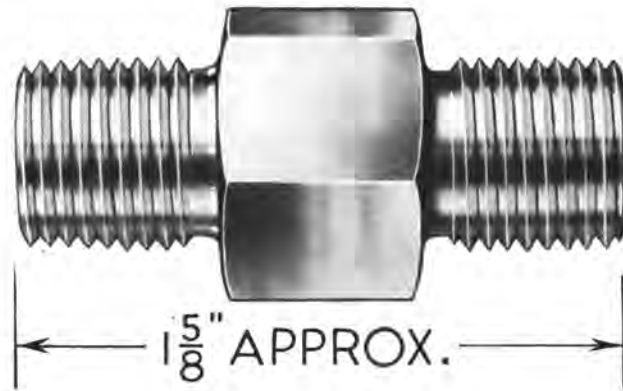
TYPE DESIGNATION: Style E

A. S. C. STOCK NUMBER: 5500957564-3

PRODUCTION STATUS: Not under procurement for initial installation, because of Army change to low pressure oxygen.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: Bastian-Blessing Co. 4344



**PIECE—TWO WAY CONNECTING**  
**BRITISH MARK III**

NAMES: Two way connecting piece

Union—oxygen connecting two way piece  
Mark III

DESCRIPTION: This two way connecting piece, Mark III, is used in conjunction with the British high pressure aircraft oxygen systems. It is a tube-to-tube fitting, each end being provided with 1/4 inch British straight external pipe threads (Whitworth form), which connect to the appropriate union nuts.

CHARACTERISTICS:

- Material ..... brass
- Dimensions ..... approximately 23/32 by 1 5/8 inches
- Weight ..... approximately 1/8 pound

INSTALLATION PECULIARITIES: Normally used on the charging side of installations, providing for charging of cylinders in place. Used with British union nuts and spherical nipples, in accordance with the installation.

**ARMY**

A. E. REFERENCE NUMBER: 46-1827

TYPE DESIGNATION: British Mark III

A. S. C. STOCK NUMBER: 5500931218

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by two way connecting piece, Mark III A, British Stores Reference Number 6D/575; American Stores Reference Number 106D/162; A. E. Reference Number 46-1830.

SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATIONS: 0.76

AIR MINISTRY DRAWING NUMBER: H13389

TYPE DESIGNATION: Mark III

BRITISH STORES REFERENCE NUMBER: 6D/116

AMERICAN STORES REFERENCE NUMBER: 106D/11



**PIECE—TWO-WAY CONNECTING**

**BRITISH MARK III A**

NAMES: Two-way connecting piece  
Union—oxygen connecting two-way piece  
Mark III A

Connecting piece, two-way Mark III A

DESCRIPTION: This two-way, Mark III A, connecting piece is used in the British aircraft high pressure oxygen systems. It is used either as a normal connecting piece or as a check valve. It is a tube-to-tube fitting, both ends having 1/4 inch British straight external pipe threads (Whitworth form) for connection to the oxygen line fittings. The inside of the threaded ends are designed for the inclusion of a non-return valve, Mark I, which permits the flow of oxygen in the required direction.

CHARACTERISTICS:

Material . . . . . brass  
Dimensions . . . . . approximately 2 3/32 by 1 5/8 inches  
Weight . . . . . approximately 1/8 pound

RELATIONSHIP OF PARTS: Used with:

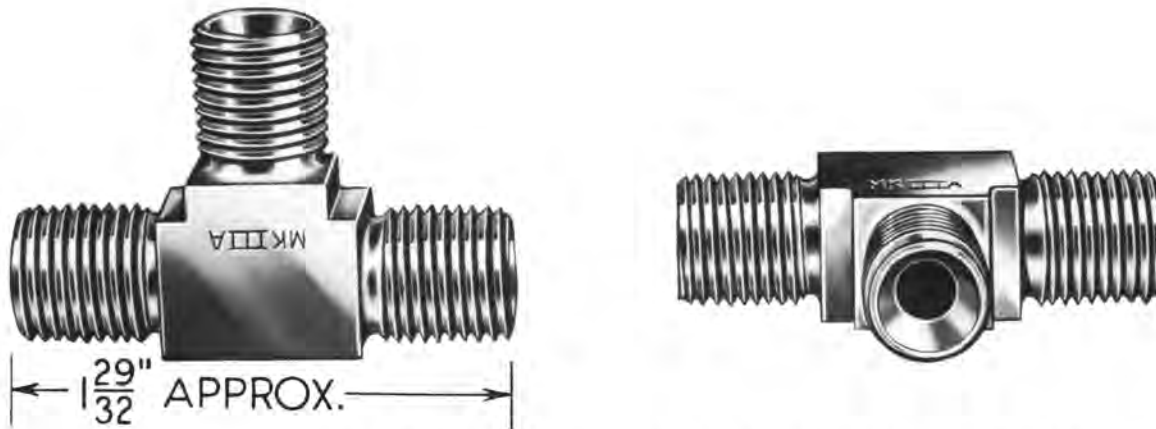
Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
2 union nuts, Mark IV A and when used as a check valve, 1 non-return valve, Mark I	6D/487	106D/156	46-1823
	6D/427	106D/7	46-2885

**ARMY**

A. E. REFERENCE NUMBER: 46-1830  
TYPE DESIGNATION: British Mark III A  
A. S. C. STOCK NUMBER: 5500931217  
PRODUCTION STATUS: Under procurement. This connecting piece supersedes connecting piece two-way Mark III, British Stores Reference Number 6D/116; American Stores Reference Number 106D/11; A. E. Reference Number 46-1827.  
SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATIONS: 0.76  
AIR MINISTRY DRAWING NUMBER: Z9083  
TYPE DESIGNATION: Mark III A  
BRITISH STORES REFERENCE NUMBER: 6D/575  
AMERICAN STORES REFERENCE NUMBER: 106D/162



**PIECE—THREE-WAY CONNECTING**  
**BRITISH MARK III A**

NAMES: Three-way connecting piece

Union—oxygen connecting three-way piece,  
Mark III A

DESCRIPTION: This three way connecting piece, Mark III A, is used in the British aircraft high pressure oxygen systems. It is used as a normal connecting piece, or as a check valve. The three legs or branches have 1/4 inch British straight external pipe threads (Whitworth form), which connect to the oxygen line tube fittings. The inside of each leg or branch is designed for the inclusion of a non-return valve, Mark I, which permits the flow of oxygen in the required direction.

CHARACTERISTICS:

Material.....brass  
Dimensions.....approximately 1/2 by 1 7/32 by 1 29/32 inches  
Weight.....approximately 3/16 pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
3 union nuts, Mark IV A and when used as a check valve, one, two, or three non return valves, Mark I	6D/487	106D/156	46-1823
	6D/427	106D/7	46-2885

**ARMY**

A. E. REFERENCE NUMBER: 46-1833

TYPE DESIGNATION: British Mark III A

A. S. C. STOCK NUMBER: 5500931220-5

PRODUCTION STATUS: Under procurement. This connecting piece, Mark III A, supersedes

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Three-way piece, Mark IV E	6D/122	106D/18	46-1835
Three-way piece, Mark IV F	6D/145	106D/21	46-1837
Three-way piece, Mark IV G	6D/141	106D/152	None
Three-way piece, Mark IV H	6D/146	106D/153	None

SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

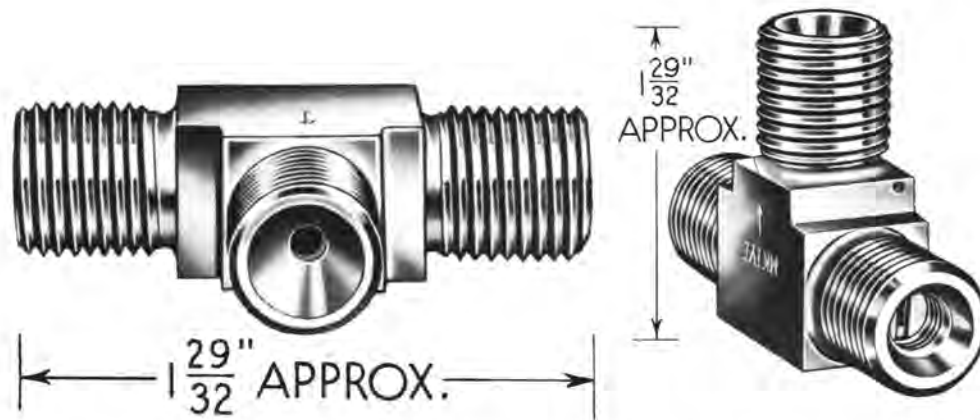
AIR MINISTRY SPECIFICATION: 0.76

AIR MINISTRY DRAWING NUMBER: Z9084

TYPE DESIGNATION: Mark III A

BRITISH STORES REFERENCE NUMBER: 6D/603

AMERICAN STORES REFERENCE NUMBER: 106D/169



**PIECE—THREE WAY CONNECTING**  
**BRITISH MARK IV E**

NAMES: Three way connecting piece

Union—oxygen connecting three way piece,  
Mark IV E

DESCRIPTION: This three way connecting piece, Mark IV E, is used in British aircraft high pressure oxygen systems. It functions also as a check valve. The three legs or branches are provided with 1/4 inch British straight external pipe threads (Whitworth form), which connect to the oxygen pipe line fittings. The two horizontal branches are threaded internally for the inclusion of a non-return detachable ball valve, which permits the flow of oxygen in the required direction.

CHARACTERISTICS:

- Material ..... brass
- Dimensions ..... approximately 1/2 by 1 29/32 by 1 29/32 inches
- Weight ..... approximately 3/16 pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
3 union nuts, Mark III or	6D/40	106D/13	46-1820
3 union nuts, Mark IV	6D/241	106D/15	46-1822

**ARMY**

A. E. REFERENCE NUMBER: 46-1835. (Former A. E. Reference number: 97-5660)

TYPE DESIGNATION: British Mark IV E

A. S. C. STOCK NUMBER: 5500931223

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by three way connecting piece, Mark III A, British Stores Reference Number 6D/603, American Stores Reference Number 106D/169, A. E. Reference Number 46-1833.

SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATIONS: 0.98

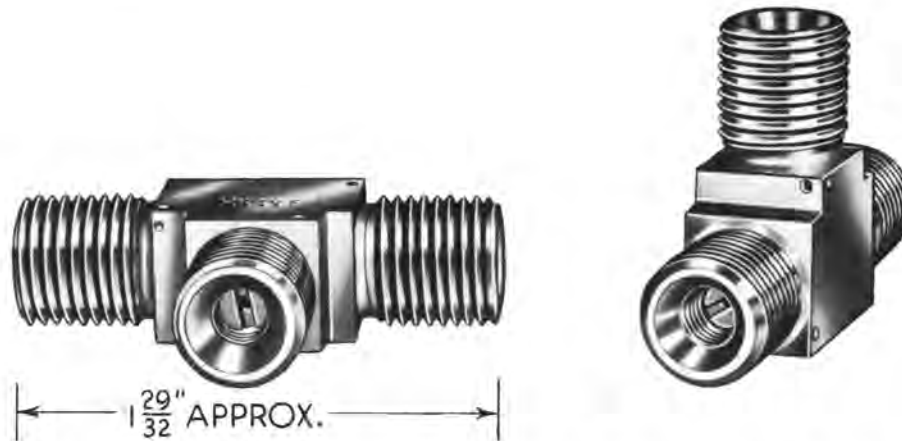
AIR MINISTRY DRAWING NUMBER: W-6412/1

AIR MINISTRY: S. I. S. 597

TYPE DESIGNATION: Mark IV E

BRITISH STORES REFERENCE NUMBER: 6D/122

AMERICAN STORES REFERENCE NUMBER: 106D/18



**PIECE—THREE WAY CONNECTING**  
**BRITISH MARK IV F**

NAMES: Three way connecting piece

Union—oxygen connecting three way piece,  
Mark IV F

DESCRIPTION: This three way connecting piece, Mark IV F, is used in British aircraft high pressure oxygen systems. It functions also as a check valve. The three legs or branches are provided with 1/4 inch British straight external pipe threads (Whitworth form), which connect to the oxygen pipe line fittings. The two right angle branches are threaded internally for the inclusion of a non-return detachable ball valve, which permits the flow of oxygen in the required direction.

CHARACTERISTICS:

Material..... brass  
Dimensions..... approximately 1/2 by 1 29/32 by 1 29/32 inches  
Weight..... approximately 3/16 pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
3 union nuts, Mark III or 3 union nuts, Mark IV	6D/40	106D/13	46-1820
	6D/241	106D/15	46-1822

**ARMY**

A. E. REFERENCE NUMBER: 46-1837

TYPE DESIGNATION: British Mark IV F

A. S. C. STOCK NUMBER: 5500931224

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by three way connecting piece, Mark III A, British Stores Reference Number 6D/603, American Stores Reference Number 106D/169, A. E. Reference Number 46-1833.

SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATIONS: 0.98

AIR MINISTRY DRAWING NUMBER: Z7497

AIR MINISTRY: S. I. S. 597

TYPE DESIGNATION: Mark IV F

BRITISH STORES REFERENCE NUMBER: 6D/145

AMERICAN STORES REFERENCE NUMBER: 106D/21



### PIECE—THREE WAY CONNECTING

#### BRITISH MARK V

NAMES: Three way connecting piece

Union—oxygen connecting three way piece,  
Mark V

DESCRIPTION: This three way connecting piece, Mark V, is used in British aircraft high pressure oxygen cylinders. The central leg of the piece has an 0.715 British standard taper stem thread, which is inserted into the cylinder. The remaining two legs have external 1/4 inch British straight pipe threads (Whitworth form), which connect to the oxygen piping system. One of the horizontal branches includes a non-return valve, Mark I, which permits the flow of oxygen in the required direction.

CHARACTERISTICS:

- Material..... brass
- Dimensions..... approximately 13/16 by 2 by 2 1/2 inches
- Weight..... approximately 1/4 pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Cylinder, Mark VC and non-return valve, Mark I, makes 750 liter cylinder and valve assembly	6D/483	106D/61 106D/62	46-1325

### ARMY

A. E. REFERENCE NUMBER: 46-1839

TYPE DESIGNATION: British Mark V

A. S. C. STOCK NUMBER: 5500931221

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit, with non-return valve, Mark I, British Stores Reference Number 6D/427, American Stores Reference Number 106D/7, A. E. Reference Number 46-2885, incorporated in one leg.

### BRITISH

AIR MINISTRY SPECIFICATIONS: 0.104

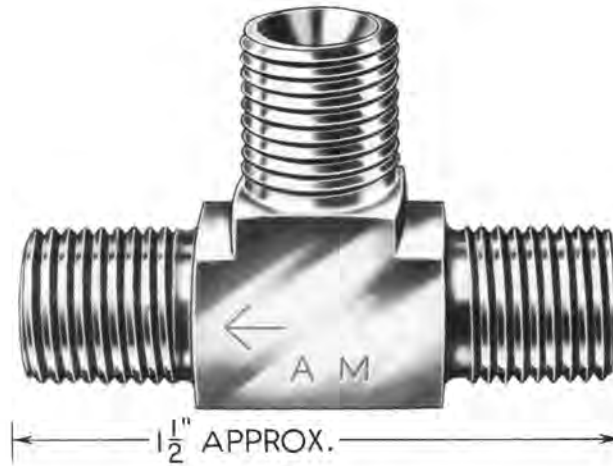
AIR MINISTRY DRAWING NUMBER: Z7660

TYPE DESIGNATION: Mark V

BRITISH STORES REFERENCE NUMBER: 6D/422

AMERICAN STORES REFERENCE NUMBER: 106D/28





**PIECE—THREE WAY CONNECTING**  
**BRITISH MARK VI**

NAMES: Three way connecting piece

Union—oxygen connecting three way piece,  
Mark VI

DESCRIPTION: This three way connecting piece, Mark VI, is used in British aircraft medium pressure oxygen systems. The three legs, or branches, have 1/4 inch British external straight pipe threads (Whitworth form), which connect to the appropriate union nuts.

CHARACTERISTICS:

Material ..... brass  
Dimensions ..... approximately 33/64 by 13/64 by 1 1/2 inches  
Weight ..... approximately 1/4 pound

RELATIONSHIP OF PARTS: Used with:

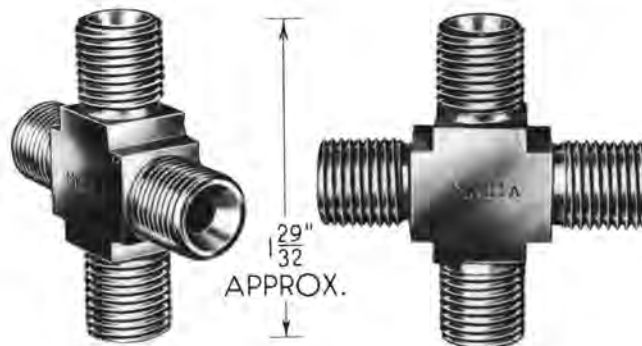
Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Union nut, Mark IV or Union, nut, Mark IV A	6D/241 6D/487	106D/15 106D/156	46-1822 46-1823

**ARMY**

A. E. REFERENCE NUMBER: 46-1841  
TYPE DESIGNATION: British Mark VI  
A. S. C. STOCK NUMBER: 5500931222  
PRODUCTION STATUS: Under procurement.  
SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATIONS: 0.112  
AIR MINISTRY DRAWING NUMBER: Z7855  
TYPE DESIGNATION: Mark VI  
BRITISH STORES REFERENCE NUMBER: 6D/429  
AMERICAN STORES REFERENCE NUMBER: 106D/34



## PIECE—FOUR WAY CONNECTING

### BRITISH MARK III A

NAMES: Four way connecting piece

Union—oxygen connecting four way piece,  
Mark III A

DESCRIPTION: This four way connecting piece, Mark III A, is used in the British aircraft high pressure oxygen system. It functions, also, as a check valve. Each of the four legs or branches has a 1/4 inch British straight external pipe thread (Whitworth form), which connects to the oxygen tube line fittings. The internal part of each leg, or branch, is designed for the inclusion of a non-return valve, Mark I, which permits the flow of oxygen in the required direction.

CHARACTERISTICS:

- Material.....brass
- Dimensions.....approximately 1/2 by 1 29/32 by 1 29/32 inches
- Weight.....approximately 1/4 pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
4 Union nuts, Mark IV A	6D/487	106D/156	46-1823
and when used as check valve 1, 2, or 3 (as required) Non return valve, Mark I	6D/427	106D/7	46-2885

### ARMY

A. E. REFERENCE NUMBER: 46-1843

TYPE DESIGNATION: British Mark III A

A. S. C. STOCK NUMBER: 5500931233

PRODUCTION STATUS: Under procurement. This connecting piece supersedes connecting piece four way Mark IV A, British Stores Reference Number 6D/123, American Stores Reference Number 106D/19, A. E. Reference Number 46-1845.

SHIPPING DATA: Shipped as a complete unit.

### BRITISH

AIR MINISTRY SPECIFICATIONS: 0.76

AIR MINISTRY DRAWING NUMBER: Z9085

TYPE DESIGNATION: Mark III A

BRITISH STORES REFERENCE NUMBER: 6D/604

AMERICAN STORES REFERENCE NUMBER: 106D/170





**VALVE — OXYGEN NON-RETURN  
BRITISH MARK I**

NAME: Oxygen non-return valve.

DESCRIPTION: This non-return valve, Mark I, is used in British aircraft high pressure oxygen systems. It consists of a bell-mouthed brass cylinder, with a stainless steel ball in the bore. Oxygen flow in one direction forces the ball against a brass seat, thus forming a seal. Flow in the opposite direction lifts the ball from the seat, and the oxygen passes through four radial ports. This valve can be inserted in any branch of the two-way, three-way, and four-way Mark III A connecting pieces, and in one branch of the three way piece Mark V

CHARACTERISTICS:

Material ..... brass  
Dimensions ..... approximately 2 1/64 by 7/16 inches

**ARMY**

A. E. REFERENCE NUMBER: 46-2885  
TYPE DESIGNATION: British Mark I  
A. S. C. STOCK NUMBER: 5500959450  
PRODUCTION STATUS: Under procurement.  
SHIPPING DATA: Shipped one gross to 1/2 pound carton.

**BRITISH**

AIR MINISTRY SPECIFICATION: 0.109  
AIR MINISTRY DRAWING NUMBER: Z7892  
TYPE DESIGNATION: Mark I  
BRITISH STORES REFERENCE NUMBER: 6D/427  
AMERICAN STORES REFERENCE NUMBER: 106D/7



### VALVE—LOW PRESSURE OXYGEN FILLER

AN6024-3

NAMES: Low pressure oxygen filler valve  
Oxygen filler valve

Valve assembly—oxygen filler

DESCRIPTION: This low pressure oxygen filler valve is used for refilling low pressure oxygen cylinders installed in airplanes without removal of the cylinders. Attached to the base of the valve is a flared tube fitting with 1/2-20 NF-3 threads, for permanent connection to the oxygen system. A bracket with four holes is also provided for mounting the valve. The valve is designed to receive a rapid connection (slip-in-fit) adapter. A handle is provided to facilitate disconnection. When filling of the cylinders is complete and the adapter is removed from the filler valve, the oxygen flow is checked by an internal mechanism similar to that used in low pressure oxygen check valves.

CHARACTERISTICS:

Dimensions..... approximately 2 1/4 by 2 3/4 by 3 3/8 inches  
Weight..... approximately 5/16 pound

RELATIONSHIP OF PARTS: Used with the following low pressure oxygen filler adapters:  
Adapter, Army drawing number 42A6950, A. E. Reference Number 46-200  
Adapter, AN6027-1, A. E. Reference Number 46-685  
Adapter, Army drawing number 42A7543, A. E. Reference Number 46-250

#### ARMY

A. E. REFERENCE NUMBER: 46-2900

SPECIFICATIONS:

Detail..... AN-V-14  
Superseded..... 40326B

AN DRAWING NUMBER: AN 6024

AN PART NUMBER: AN6024-3

ARMY DRAWING NUMBER: 41B5316

TYPE DESIGNATION: Type I

A. S. C. STOCK NUMBER: 5500955330

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURFR'S DRAWING NUMBER: A. Schrader's Son 1660

#### NAVY

PROCUREMENT STATUS: On planes procured from the Army.



# VALVES OXYGEN EQUIPMENT SECTION



## VALVE—HIGH PRESSURE OXYGEN FILLER AN6013-1

NAMES: High pressure oxygen filler valve  
Oxygen valve

Valve assembly—filler high pressure oxygen system  
Valve—filler, oxygen (high pressure)

DESCRIPTION: This high pressure oxygen filler valve is for recharging high pressure oxygen cylinders installed in airplanes. It is of the packless, positive shut-off type. The body of the valve is marked with an arrow to indicate the direction of flow. The outlet port is provided with an AN 780-3 brass fitting which is connected to the airplane oxygen line system. The inlet port has 29/32-14 NS-3 threads for the adapter.

The adapter, AN6005-1, A. E. Reference Number 46-650, and a brass dust cap are attached to the valve body by means of six inch chains to prevent loss.

CHARACTERISTICS:

Dimensions..... approximately 2 1/16 by 3 3/4 by 4 inches  
Weight..... approximately 1 11/16 pounds

### ARMY

A. E. REFERENCE NUMBER: 46-2950

SPECIFICATIONS:

Detail..... AN-V-11  
Superseded..... 40385

AN DRAWING NUMBER..... AN6013

AN PART NUMBER: AN6013-1

A. S. C. STOCK NUMBER: Refer to chart

PRODUCTION STATUS: Not under procurement for initial installation, because of Army change to low pressure oxygen.

SHIPPING DATA: Shipped as a complete unit.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
Models are used in services as noted in column 3  
A-Army, N-Navy, B-British, C-Commercial

Manufacturer	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number
Bastian-Blessing Co.	4354	A-N	5500957700
Superior Valve & Fittings Co.	5530	A-N	



### VALVE—LOW PRESSURE OXYGEN LINE

NAMES: Low pressure oxygen line valve  
Oxygen line valve

Valve assembly—oxygen line low pressure

DESCRIPTION: This low pressure oxygen line valve is used to open or close the source of low pressure oxygen installed in airplanes. The valve is of the packless, positive shut-off type, and fully opens in not more than 1 1/4 counterclockwise turns of the handwheel. The handwheel is marked with an arrow to indicate direction of rotation to open the valve.

Inlet and outlet ports have 1/8 inch internal pipe threads with AN816-5D fittings installed.

CHARACTERISTICS:

Dimensions.....approximately 2 3/8 by 2 3/8 by 3 3/8 inches  
Weight.....approximately 1 pound

#### ARMY

A. E. REFERENCE NUMBER: 46-3000

SPECIFICATIONS:

Detail.....40386

TYPE DESIGNATION: Type I

A. S. C. STOCK NUMBER: Refer to column 4 of chart.

TECHNICAL ORDER NUMBER: Refer to column 5 of chart.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

#### NAVY

There is no Navy equivalent for the Army item.

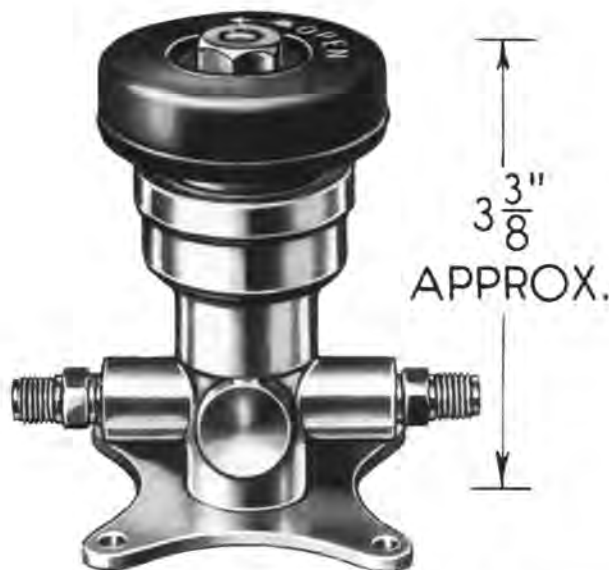
**ALL MODELS BELOW ARE INTERCHANGEABLE**  
**Models are used in services as noted in column 3**  
**A-Army, N-Navy, B-British, C-Commercial**

Manufacturer	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	Remarks
Bastian-Blessing Co.	4352	A	5500959360	03-50-21	
	4353	A	5500955355	03-50-20	High pressure oxygen line valve.
Superior Valve & Fittings Co.	5531	A	5500959360	03-50-21	
	5532	A	5500957800	03-50-20	High pressure oxygen line valve.

NOTE—High pressure and low pressure oxygen line valves can be made interchangeable by replacing high pressure fittings AN780-3 with low pressure fittings AN816-5D or vice versa. Because of the difference in the mounting bracket holes, the products of Superior Valve and Fitting Company are not interchangeable with those of Bastian-Blessing Company as units without re-drilling panel holes.



# VALVES OXYGEN EQUIPMENT SECTION



## VALVE—HIGH PRESSURE OXYGEN LINE

AN6012-1

NAMES: High pressure oxygen line valve  
Oxygen line valve

Valve assembly—oxygen line high pressure

DESCRIPTION: This high pressure oxygen line valve is used in the high pressure oxygen systems installed in troop transport airplanes. It is of the packless, positive shut-off type, and opens fully in not more than 1 1/4 counterclockwise turns of the handwheel. The handwheel is marked with an arrow to indicate direction of rotation to open the valve.

Inlet and outlet ports are provided with 1/8 inch internal pipe threads, with AN780-3 fittings installed.

CHARACTERISTICS:

Dimensions . . . . . approximately 2 3/8 by 2 3/8 by 3 3/8 inches  
Weight . . . . . approximately 1 pound

### ARMY

A. E. REFERENCE NUMBER: 46-3050

SPECIFICATIONS:

Detail . . . . . AN-V-12  
Superseded . . . . . 40368

AN DRAWING NUMBER: AN6012

AN PART NUMBER: AN6012-1

A. S. C. STOCK NUMBER: Refer to column 4 of the chart

TECHNICAL ORDER NUMBER: Refer to column 5 of chart.

PRODUCTION STATUS: Not under procurement for initial installation, because of Army change to low pressure oxygen.

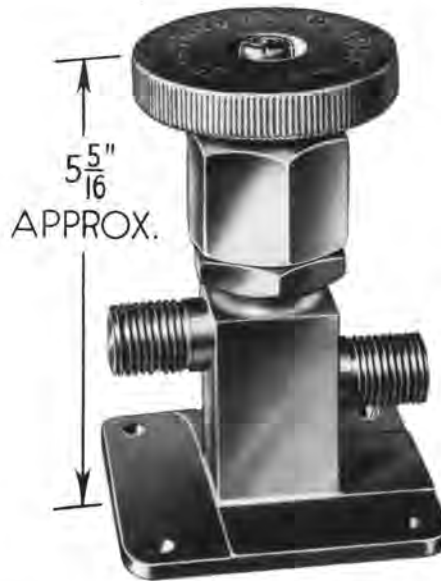
SHIPPING DATA: Shipped as a complete unit.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
**Models are used in services as noted in column 3**  
**A-Army, N-Navy, B-British, C-Commercial**

Manufacturer	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	Remarks
Bastian-Blessing Co.	4353	A	5500955355	03-50-20	
	4352	A	5500959360	03-50-21	Low pressure oxygen line valve.
Superior Valve & Fitting Co.	5532	A	5500957800	03-50-20	
	5531	A	5500959360	03-50-21	Low pressure oxygen line valve.

NOTE—High pressure and low pressure oxygen line valves can be made interchangeable by replacing low pressure fittings AN816-5D with high pressure fittings AN780-3 or vice versa. Because of the difference in the mounting bracket holes the products of Bastian-Blessing Company are not interchangeable with those of Superior Valve and Fitting Company as units without re-drilling panel holes.





### VALVE—HIGH PRESSURE OXYGEN MASTER CHARGING OR DISCHARGING

#### BRITISH MARK VIII\*

NAMES: High pressure oxygen master charging or discharging valve  
High pressure valve Mark VIII\* British

High pressure oxygen line valve  
Line valve—high pressure oxygen  
Oxygen line valve

DESCRIPTION: This Mark VIII\* high pressure oxygen valve has threaded male inlet and outlet connections which are provided with 1/4 inch British straight pipe threads (Whitworth form).  
This valve may be used as a charging valve, line or discharge valve. When used as a charging valve, it is installed inside the fuselage in a convenient position in the airplane, with the upper connection (gland side of the valve) on the inlet side. The lower connection is attached permanently to the line system which leads to the oxygen cylinders.

When used as a discharge valve, the upper connection is attached to the section of the line having in the circuit the regulators, bayonet sockets, etc. The lower connection is attached to the cylinder bank line. The handle of the valve is marked with arrows to indicate the ON and OFF direction of rotation.

CHARACTERISTICS:

Dimensions.....approximately 2 1/4 by 2 1/4 by 3 1/4 inches  
Weight.....approximately 1 5/16 pound

#### ARMY

A. E. REFERENCE NUMBER: 46-2880  
TYPE DESIGNATION: British Mark VIII\*  
A. S. C. STOCK NUMBER: Refer to column 4 of the chart  
PRODUCTION STATUS: Under procurement.  
SHIPPING DATA: Shipped as a complete unit.

#### BRITISH

AIR MINISTRY SPECIFICATION: 0.103  
AIR MINISTRY DRAWING NUMBER: Z7658  
AIR MINISTRY S. I. S.: 598  
TYPE DESIGNATION: Mark VIII\*

ALL MODELS BELOW ARE INTERCHANGEABLE  
Models are used in services as noted in column 3  
A-Army, N-Navy, B-British, C-Commercial

Manufacturer	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	British Stores Reference Number	American Stores Reference Number	Remarks
Weatherhead Co.	204255	B	5500959325	None	6D/223	106D/6	
The de Havilland Aircraft of Canada, Ltd.	204255	B	5500959325	None			Part number 204255 supersedes part number 203633. They are interchangeable.



## VALVE—LOW PRESSURE OXYGEN RELIEF TYPE I

NAMES: Low pressure oxygen relief valve  
Oxygen relief valve

Valve assembly—relief low pressure oxygen system

DESCRIPTION: This low pressure oxygen relief valve was used in low pressure oxygen systems to prevent dangerously high pressures.

CHARACTERISTICS:

Dimensions.....approximately 3<sup>1</sup>/<sub>16</sub> by 2<sup>3</sup>/<sub>4</sub> by 1 inches  
Weight.....approximately 3<sup>3</sup>/<sub>16</sub> pound

INSTALLATION PECULIARITIES: Because of excessive leakage, it was found necessary to remove these relief valves as per Technical Order Number 03-50-22. Upon removal of the relief valve, the opening should be plugged with a pipe plug, or the lines connected with a flared tube union, depending upon type of installation.

The following parts are used for replacement:

- Where relief valve has 1/8 inch pipe threads, replace with pipe plug, part number AN913-1.
- Where relief valve has 1/4 inch pipe threads, replace with pipe plug, part number AN913-2.
- Where relief valve has flared tube fittings, replace with union, part number AN815-5D.

### ARMY

A. E. REFERENCE NUMBER: 46-3100

SPECIFICATIONS:

Detail.....40392

TYPE DESIGNATION: Type I

A. S. C. STOCK NUMBER: 5500959550

SHIPPING DATA: Shipped as a complete unit.

PRODUCTION STATUS: Not under procurement for initial installation.

MANUFACTURER'S DRAWING NUMBER: Bastian-Blessing Co. 4331

### NAVY

There is no Navy equivalent for the Army item.



## VALVE—OXYGEN PRESSURE REDUCTION

AN6028-1

NAMES: Oxygen pressure reduction valve  
Reducing valve  
Valve assembly—oxygen pressure reduction

DESCRIPTION: This oxygen pressure reduction valve was designed to enable high pressure oxygen cylinders to be used in a low pressure demand system. The valve operates from a maximum pressure of 2000 pounds per square inch at the inlet, and can be pre-set to a maximum pressure of either 400 or 450 pounds per square inch at the outlet. The one inlet and two outlets have  $\frac{1}{8}$  inch internal pipe threads for attachment of desired nipples.

A safety relief valve is also incorporated to prevent the accumulation of a pressure in excess of 600 pounds per square inch in the low pressure portion of the valve. The valve shuts after relief, at not less than 500 pounds per square inch.

CHARACTERISTICS:

Dimensions..... approximately  $4\frac{9}{16}$  by  $4\frac{1}{2}$  by  $4\frac{1}{4}$  inches  
Weight..... approximately  $2\frac{1}{2}$  pounds

INSTALLATION PECULIARITIES: Used in high pressure oxygen line system, installed between the high pressure oxygen cylinder and low pressure regulator.

### ARMY

A. E. REFERENCE NUMBER: 46-3150

SPECIFICATIONS:

Detail..... 40383A  
Superseded..... 40383

AN DRAWING NUMBER: AN6028

A. S. C. STOCK NUMBER: 5500959500

PRODUCTION STATUS: Not under procurement for initial installation, because of Army change to low pressure oxygen system.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: Bastian-Blessing Co. 4357



**VALVE—OXYGEN CUT-OFF**

**BRITISH MARK I**

NAMES: Oxygen cut-off valve

Mark I automatic cut-off oxygen valve

DESCRIPTION: The oxygen cut-off valve, Mark I, is installed in the low pressure portion of a British oxygen system. It connects in the line between a regulator and a Mark II economizer. A spring clip at the top of the body is used for stowing a Mark IV bayonet socket, which is attached to the economizer outlet tube when not in use. Stowing this socket depresses the spherical nut in the lower portion of the spring clip, pushing the piston down and sealing the opening, thereby stopping the flow of oxygen to its economizer.

A small luminous plate is affixed to the valve, to aid in locating it in the dark.

CHARACTERISTICS:

Dimensions..... approximately 1 1/4 by 1 7/8 by 3 5/8 inches  
Weight..... approximately 3/16 pound

INSTALLATION PECULIARITIES: Used in conjunction with Mark II economizer, American Stores Reference Number 106D/76; British Stores Reference Number 6D/479; A. E. Reference Number 46-1340.

**ARMY**

A. E. REFERENCE NUMBER: 46-2875

TYPE DESIGNATION: British Mark I

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATION: 0.121

AIR MINISTRY DRAWING NUMBER: W8210-1

TYPE DESIGNATION: Mark I

BRITISH STORES REFERENCE NUMBER: 6D/480

AMERICAN STORES REFERENCE NUMBER: 106D/144

MANUFACTURER'S DRAWING NUMBER: Bastian-Blessing Company 4336



## VALVE—HIGH PRESSURE OXYGEN CYLINDER BRITISH MARK VII A\*

NAMES: High pressure oxygen cylinder valve

Valve—Mark VII A\* for high pressure oxygen cylinder, Mark V

DESCRIPTION: This cylinder valve is used in British aircraft high pressure oxygen cylinders. Its purpose is to shut off the oxygen supply stored in the cylinder from the remainder of the system during periods of inaction. The body of the valve is of brass and has a 0.715 British standard taper stem thread which screws into the neck of the oxygen cylinder. A side branch of the valve has 1/4 inch British straight external pipe thread (Whitworth form), which connects to the oxygen line system.

CHARACTERISTICS:

Material.....	brass
Dimensions.....	approximately 1 9/16 by 3 7/16 inches
Weight.....	approximately 9/16 pound

INSTALLATION PECULIARITIES: Used with:

750 liter high pressure oxygen cylinder, Mark VC, British Stores Reference Number 6D/483, American Stores Reference Number 106D/61, to make 750 liter cylinder and valve assembly, American Stores Reference Number 106D/63, A. E. Reference Number 46-1330.

### ARMY

A. E. REFERENCE NUMBER: 46-2877

TYPE DESIGNATION: British Mark VII A\*

A. S. C. STOCK NUMBER: 5500958450

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S DRAWING NUMBER: Kerotest Manufacturing Co. 7491

### BRITISH

AIR MINISTRY SPECIFICATION: 0.84

AIR MINISTRY DRAWING NUMBER: Z7025

TYPE DESIGNATION: Mark VII A\*

BRITISH STORES REFERENCE NUMBER: 6D/264

AMERICAN STORES REFERENCE NUMBER: 106D/54



**NIPPLE — SPHERICAL**  
**BRITISH MARK III**

NAMES: Spherical nipple

Nipple—oxygen spherical, Mark III

DESCRIPTION: This spherical nipple, Mark III, is used in conjunction with a union nut, Mark III, and  $\frac{3}{16}$  inch outside diameter tubing in British aircraft high pressure oxygen systems. Connection is made by soldering the nipple to the end of the tubing, and it is held firmly to the conical seat of the body of a connecting piece by a union nut, Mark III.

CHARACTERISTICS:

- Material . . . . . brass
- Dimensions . . . . . approximately  $\frac{1}{16}$  by  $\frac{29}{32}$  inches
- Weight . . . . . approximately  $\frac{1}{32}$  pound

RELATIONSHIP OF PARTS: Used with:

Union nut, Mark III, British Stores Reference Number 6D/40, American Stores Reference Number 106D/13, A. E. Reference Number 46-1820.

**ARMY**

A. E. REFERENCE NUMBER: 46-1810

TYPE DESIGNATION: British Mark III

A. S. C. STOCK NUMBER: 5500590510

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by spherical nipple, Mark III A, British Stores Reference Number 6D/485, American Stores Reference Number 106D/157, A. E. Reference Number 46-1813.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: The Weatherhead Company 203610

**BRITISH**

AIR MINISTRY SPECIFICATIONS: 0.76

AIR MINISTRY DRAWING NUMBER: H-11817

TYPE DESIGNATION: Mark III

BRITISH STORES REFERENCE NUMBER: 6D/39

AMERICAN STORES REFERENCE NUMBER: 106D/12



**NIPPLE—SPHERICAL**  
**BRITISH MARK III A**

NAMES: Spherical nipple

Nipple—oxygen spherical, Mark III A

DESCRIPTION: This spherical nipple, Mark III A, is used in conjunction with a union nut, Mark IV A, and  $\frac{3}{16}$  inch outside diameter tubing in British aircraft high pressure oxygen systems. Connection is made by soldering the nipple to the end of the tubing, and it is held firmly to the conical seat of the body of a connecting piece by a union nut, Mark IV A.

CHARACTERISTICS:

Material .....	brass
Dimensions .....	approximately $\frac{7}{16}$ by $\frac{29}{32}$ inches
Weight .....	approximately $\frac{1}{32}$ pound

RELATIONSHIP OF PARTS: Used with Union nut, Mark IV A, British Reference Number 6D/487, American Stores Reference Number 106D/156, A. E. Reference Number 46-1823.

**ARMY**

A. E. REFERENCE NUMBER: 46-1813

TYPE DESIGNATION: British Mark III A

A. S. C. STOCK NUMBER: 5500590512

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: The Weatherhead Manufacturing Company 204269

**BRITISH**

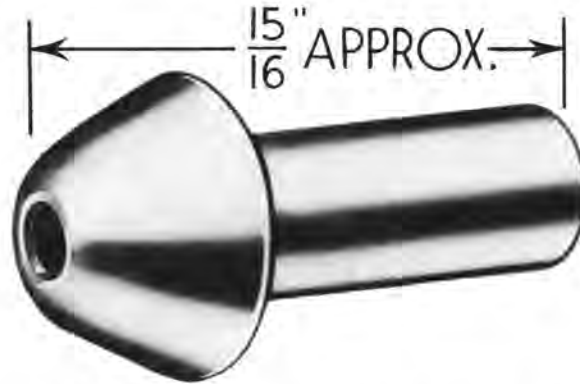
AIR MINISTRY SPECIFICATION: 0.76

AIR MINISTRY DRAWING NUMBER: Z8204

TYPE DESIGNATION: Mark III A

BRITISH STORES REFERENCE NUMBER: 6D/485

AMERICAN STORES REFERENCE NUMBER: 106D/157



**NIPPLE — SPHERICAL**  
**BRITISH MARK IV**

NAMES: Spherical nipple  
Nipple—oxygen spherical, Mark IV

DESCRIPTION: This spherical nipple, Mark IV, is used in conjunction with 1/4 inch outside diameter tubing and a union nut in British aircraft high pressure oxygen systems. Connection is made by soldering the nipple to the end of the tubing, and it is held firmly to the conical seat of the body of a connecting piece by a union nut, Mark IV.

CHARACTERISTICS:

Material ..... brass  
Dimensions ..... approximately 7/16 by 29/32 inches  
Weight ..... approximately 1/32 pound

RELATIONSHIP OF PARTS: Used with:

Union nut, Mark IV, British Stores Reference Number 6D/241, American Stores Reference Number 106D/15, A. E. Reference Number 46-1822.

**ARMY**

A. E. REFERENCE NUMBER: 46-1815

TYPE DESIGNATION: British Mark IV

A. S. C. STOCK NUMBER: 5500590520

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by spherical nipple, Mark IV A, British Stores Reference Number 6D/486, American Stores Reference Number 106D/158, A. E. Reference Number 46-1817.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: The Weatherhead Company 203615

**BRITISH**

AIR MINISTRY SPECIFICATION: 0.76

AIR MINISTRY DRAWING NUMBER: Z7864

TYPE DESIGNATION: Mark IV

BRITISH STORES REFERENCE NUMBER: 6D/240

AMERICAN STORES REFERENCE NUMBER: 106D/14





## NIPPLE — SPHERICAL

### BRITISH MARK IV A

NAMES: Spherical nipple

Nipple—oxygen spherical, Mark IV A

DESCRIPTION: This spherical nipple, Mark IVA, is used in conjunction with a union nut, Mark IV A, and 1/4 inch outside diameter tubing, in British aircraft high pressure oxygen systems. Connection is made by soldering the nipple to the end of the tubing, and it is held firmly to the conical seat of the body of the appropriate connecting piece by a union nut, Mark IV A.

CHARACTERISTICS:

Material .....	brass
Dimensions .....	approximately 7/16 by 29/32 inches
Weight .....	approximately 1/32 pound

RELATIONSHIP OF PARTS: Used with union nut, Mark IVA, British Stores Reference Number 6D/487, American Stores Reference Number 106D/156, A. E. Reference Number 46-1823.

### ARMY

A. E. REFERENCE NUMBER: 46-1817

TYPE DESIGNATION: British Mark IV A

A. S. C. STOCK NUMBER: 5500590525

PRODUCTION STATUS: Under procurement. Supersedes spherical nipple Mark IV, British Stores Reference Number 6D/240, American Stores Reference Number 106D/14, A. E. Reference Number 46-1815.

SHIPPING DATA: Shipped as a complete unit.

### BRITISH

AIR MINISTRY SPECIFICATION: 0.76

AIR MINISTRY DRAWING NUMBER: Z8205

TYPE DESIGNATION: Mark IV A

BRITISH STORES REFERENCE NUMBER: 6D/486

AMERICAN STORES REFERENCE NUMBER: 106D/158



### NUT-UNION

#### BRITISH MARK I

NAMES: Union nut

Nut—oxygen union low pressure, Mark I

DESCRIPTION: This union nut is used in the low pressure portion of the British aircraft high pressure oxygen systems. It is provided with  $\frac{1}{2}$ -26 threads (Whitworth form), which attach to the appropriate Mark I union bodies.

CHARACTERISTICS:

- Material.....duralumin
- Dimensions.....approximately  $\frac{29}{64}$  by  $\frac{39}{64}$  inches
- Weight.....approximately  $\frac{1}{32}$  pound

RELATIONSHIP OF PARTS: Used with: Rubber bushing, British Stores Reference Number 28C/5109, American Stores Reference Number 128/5109, A. E. Reference Number 46-2425, and any union body, Mark I.

One union nut, Mark I, and one rubber bushing, Mark I, are required with each fitting leg of the union bodies.

#### ARMY

A. E. REFERENCE NUMBER: 46-1819 (Former A. E. Reference Number 97-9420)

TYPE DESIGNATION: British Mark I

A. S. C. STOCK NUMBER: 5500601625

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

#### NAVY

There is no Navy equivalent for this item.

#### BRITISH

AIR MINISTRY SPECIFICATION: None

AIR MINISTRY DRAWING NUMBER: A. G. S. 838-4

TYPE DESIGNATION: Mark I

BRITISH STORES REFERENCE NUMBER: 28C/5108

AMERICAN STORES REFERENCE NUMBER: 128/5108



## NUT - UNION

### BRITISH MARK III

NAMES: Union nut

Nut—oxygen union, Mark III

DESCRIPTION: This union nut, Mark III, is used in British aircraft high pressure oxygen systems. It is provided with  $\frac{1}{4}$  inch British straight pipe threads (Whitworth form), and, when assembled to a spherical nipple, Mark III, attaches to a leg or branch of a connecting piece.

CHARACTERISTICS:

Dimensions . . . . . approximately  $4\frac{3}{64}$  by  $2\frac{3}{32}$  inches  
Weight . . . . . approximately  $\frac{1}{32}$  pound

RELATIONSHIP OF PARTS: Used with: Spherical nipple, Mark III, British Stores Reference Number 6D/12, American Stores Reference Number 106D/39, A. E. Reference Number 46-1810. One nut, Mark III, and one nipple, Mark III, are required for each fitting leg of the two way, three way, and four way, Mark III and Mark IV connecting pieces.

### ARMY

A. E. REFERENCE NUMBER: 46-1820

TYPE DESIGNATION: British Mark III

A. S. C. STOCK NUMBER: 5500601640

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by union nut, Mark IV A, British Stores Reference Number 6D/487, American Stores Reference Number 106D/156, A. E. Reference Number 46-1823.

SHIPPING DATA: Shipped as a complete unit.

### BRITISH

AIR MINISTRY SPECIFICATION: 0.76

AIR MINISTRY DRAWING NUMBER: H11817

TYPE DESIGNATION: Mark III

BRITISH STORES REFERENCE NUMBER: 6D/40

AMERICAN STORES REFERENCE NUMBER: 106D/13



### NUT-UNION

#### BRITISH MARK IV

NAMES: Union nut

Nut—oxygen union, Mark IV

DESCRIPTION: This union nut, Mark IV, is used with 1/4 inch outside diameter tubing and a spherical nipple, Mark IV, in British aircraft high pressure oxygen systems. It is provided with 1/4 inch British straight pipe threads (Whitworth form), and attaches to Mark III, Mark III A, or Mark IV connecting piece.

CHARACTERISTICS:

- Material ..... brass
- Dimensions ..... approximately 43/64 by 43/64 inches
- Weight ..... approximately 1/32 pound

RELATIONSHIP OF PARTS: Used with: Spherical nipple, Mark IV, British Stores Reference Number 6D/240, American Stores Reference Number 106D/14, A. E. Reference Number 46-1815. One nut and one nipple are required for each fitting leg in two, three and four way, Mark III, Mark III A and Mark IV connecting pieces.

#### ARMY

A. E. REFERENCE NUMBER: 46-1822 (Former A. E. Reference Number 97-5380)

TYPE DESIGNATION: British Mark IV

A. S. C. STOCK NUMBER: 5500601650

PRODUCTION STATUS: Not under procurement for initial installation.

Superseded by: Union nut, Mark IV A, British Stores Reference Number 6D/487, American Stores Reference Number 106D/156, A. E. Reference Number 46-1823.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: The Weatherhead Company 203616

#### BRITISH

AIR MINISTRY SPECIFICATION: 0.76

AIR MINISTRY DRAWING NUMBER: Z7863

TYPE DESIGNATION: Mark IV

BRITISH STORES REFERENCE NUMBER: 6D/241

AMERICAN STORES REFERENCE NUMBER: 106D/15



**NUT-UNION**  
**BRITISH MARK IV A**

NAME: Union nut

DESCRIPTION: This union nut, Mark IV A, is used in the piping system of British aircraft high pressure oxygen systems. It is provided with an internal 1/4 inch British straight pipe thread (Whitworth form), which, when assembled with a spherical nipple, attaches to a leg, or branch, of a Mark III A connecting piece.

CHARACTERISTICS:

Material.....brass  
Dimensions.....approximately 43/64 by 23/32 inches  
Weight.....approximately 1/32 pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Spherical nipple, Mark III A or Spherical nipple, Mark IV A	6D/485  6D/486	106D/157  106D/158	46-1813  46-1817

One nut, Mark IV A, and one nipple, Mark III A, or nipple, Mark IV A, are required for each fitting leg of any connecting piece two way, three way, and four way, Mark III A.

**ARMY**

A. E. REFERENCE NUMBER: 46-1823

TYPE DESIGNATION: British Mark IV A

A. S. C. STOCK NUMBER: 5500601655

PRODUCTION STATUS: Under procurement. This union nut supersedes:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Union nut, Mark III	6D/40	106D/13	46-1820
Union nut, Mark IV	6D/241	106D/15	46-1822

SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

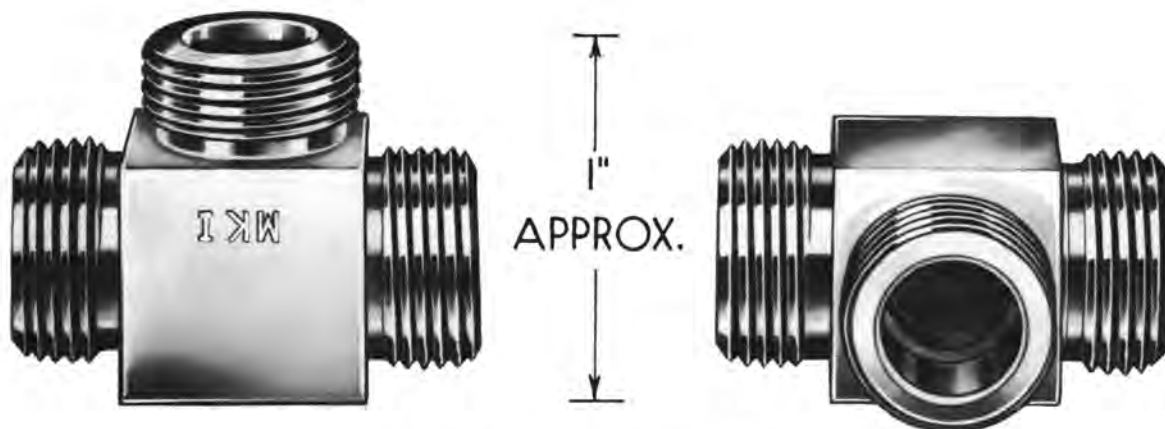
AIR MINISTRY SPECIFICATIONS: 0.76

AIR MINISTRY DRAWING NUMBER: Z8206

TYPE DESIGNATION: Mark IV A

BRITISH STORES REFERENCE NUMBER: 6D/487

AMERICAN STORES REFERENCE NUMBER: 106D/156



**UNION-TEE BODY**  
**BRITISH MARK I**

NAMES: Tee body union

Tee union body

DESCRIPTION: This tee body union, Mark I, is used in the low pressure portion of the British aircraft high pressure oxygen system. It is provided with 1/2-26 threads (Whitworth form), for connection with union nuts.

CHARACTERISTICS:

- Material..... duralumin
- Dimensions..... approximately 1/2 by 1 by 1 inch
- Weight..... approximately 1/16 pound

RELATIONSHIP OF PARTS: Used with:

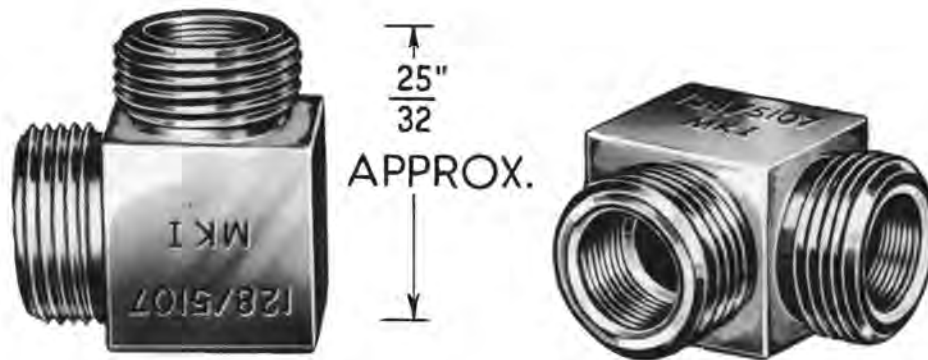
Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Union nut and Rubber bushing	28C/5108	128/5108	46-1819
	28C/5109	128/5109	46-2425

**ARMY**

- A. E. REFERENCE NUMBER: 46-689
- TYPE DESIGNATION: British Mark I
- A. S. C. STOCK NUMBER: 5500897950
- PRODUCTION STATUS: Under procurement.
- SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

- AIR MINISTRY SPECIFICATION: None
- AIR MINISTRY DRAWING NUMBER: A. G. S. 838-2
- TYPE DESIGNATION: Mark I
- BRITISH STORES REFERENCE NUMBER: 28C/5105
- AMERICAN STORES REFERENCE NUMBER: 128/5105



**UNION—ELBOW BODY**  
**BRITISH MARK I**

NAMES: Elbow body union  
Elbow union body, Mark I

Union—oxygen low pressure elbow body,  
Mark I

DESCRIPTION: This elbow body union, Mark I, is used in the low pressure tubing portion of the British aircraft high pressure oxygen systems. It is provided with 1/2-26 external threads (Whitworth form), that connect to the union nuts, Mark I.

CHARACTERISTICS:

Material..... duralumin  
Dimensions..... approximately 17/32 by 25/32 by 25/32 inches  
Weight..... approximately 1/32 pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
2 union nuts, Mark I and 2 rubber bushings, Mark I	28C/5108	128/5108	46-1819
	28C/5109	128/5109	46-2425

**ARMY**

A. E. REFERENCE NUMBER: 46-2740

TYPE DESIGNATION: British Mark I

A. S. C. STOCK NUMBER: 5500931240

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: The Weatherhead Manufacturing Company 203619

**BRITISH**

AIR MINISTRY SPECIFICATIONS: 0.76

AIR MINISTRY DRAWING NUMBER: A. G. S. 838-3

TYPE DESIGNATION: Mark I

BRITISH STORES REFERENCE NUMBER: 28C/5107

AMERICAN STORES REFERENCE NUMBER: 128/5107



**UNION—STRAIGHT BODY**  
**BRITISH MARK I**

NAMES: Straight body union  
Straight body  
Straight body union, Mark I

Union—oxygen low pressure straight body,  
Mark I

DESCRIPTION: This straight body union, Mark I, is used in conjunction with the low pressure tubing portion of British aircraft high pressure oxygen systems. Both ends are provided with 1/2-26 threads (Whitworth form), for connection to union nuts, Mark I.

CHARACTERISTICS:

Material..... duralumin  
Dimensions..... approximately 5/8 by 43/64 inches  
Weight..... approximately 1/32 pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
2 union nuts, Mark I and	28C/5108	128/5108	46-1819
2 rubber bushings, Mark I	28C/5109	128/5109	46-2425

**ARMY**

A. E. REFERENCE NUMBER: 46-2745

TYPE DESIGNATION: British Mark I

A. S. C. STOCK NUMBER: 5500931244

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

MANUFACTURER'S PART NUMBER: The Weatherhead Company 203617

**BRITISH**

AIR MINISTRY SPECIFICATION: None

AIR MINISTRY DRAWING NUMBER: A. G. S. 838-1

TYPE DESIGNATION: Mark I

BRITISH STORES REFERENCE NUMBER: 28C/5104

AMERICAN STORES REFERENCE NUMBER: 128/5104





### COUPLING — METAL PIPE COLLAR

NAMES: Metal pipe collar coupling  
Pipe collar coupling

Coupling, oxygen pipe collar  
Collar — pipe

DESCRIPTION: This pipe collar coupling is used for making pipe couplings and pipe joints in the medium pressure portion of British aircraft high pressure oxygen systems. It forms a gas-tight fit in conjunction with  $\frac{1}{4}$  inch outside diameter tubing, an outer and an inner sleeve coupling.

CHARACTERISTICS:

Material ..... aluminum alloy  
Dimensions ..... approximately  $\frac{1}{4}$  by  $\frac{29}{64}$  inches  
Weight ..... approximately  $\frac{1}{32}$  pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Metal outer sleeve coupling, and Metal inner sleeve coupling, and Metal nipple coupling, and Metal nipple coupling adapter	28C/5722 28C/5716 28C/5704 28C/5710	128/5722 128/5716 128/5704 128/5710	46-2520 46-2515 46-1807 46-1809

#### ARMY

A. E. REFERENCE NUMBER: 46-693. (Former A. E. Reference Number 97-1950)

A. S. C. STOCK NUMBER: 5500272550

TYPE DESIGNATION: None

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

#### BRITISH

AIR MINISTRY SPECIFICATION: None

AIR MINISTRY DRAWING NUMBER: A. G. S. 902B

TYPE DESIGNATION: None

BRITISH STORES REFERENCE NUMBER: 28C/5698

AMERICAN STORES REFERENCE NUMBER: 128/5698



### COUPLING — METAL NIPPLE

NAMES: Metal nipple coupling

Coupling, oxygen nipple

DESCRIPTION: This metal nipple coupling is used for making connections in the medium pressure portion of the British aircraft high pressure oxygen system. It forms a gas-tight connection when used with 1/4 inch outside diameter tubing, an outer and an inner sleeve coupling, and a pipe collar coupling.

CHARACTERISTICS:

- Material ..... aluminum alloy
- Dimensions ..... approximately 1/4 by 3/8 inches
- Weight ..... approximately 1/64 pound

RELATIONSHIP OF PARTS: Used with:

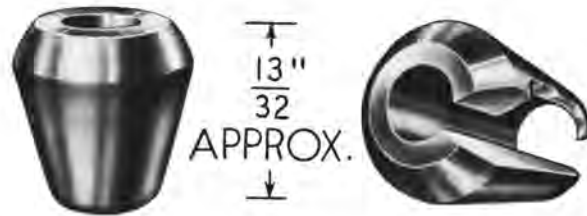
Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Metal outer sleeve coupling, and	28C/5722	128/5722	46-2520
Metal inner sleeve coupling, and	28C/5716	128/5716	46-2515
Metal pipe collar coupling	28C/5698	128/5698	46-693

#### ARMY

- A. E. REFERENCE NUMBER: 46-1807
- A. S. C. STOCK NUMBER: 5500272510
- TYPE DESIGNATION: None
- PRODUCTION STATUS: Under procurement.
- SHIPPING DATA: Shipped as a complete unit.

#### BRITISH

- AIR MINISTRY SPECIFICATION: None
- AIR MINISTRY DRAWING NUMBER: A. G. S. 903B
- TYPE DESIGNATION: None
- BRITISH STORES REFERENCE NUMBER: 28C/5704
- AMERICAN STORES REFERENCE NUMBER: 128/5704



## ADAPTER—METAL NIPPLE COUPLING

NAMES: Metal nipple coupling adapter

Coupling—oxygen adapter nipple

DESCRIPTION: This metal nipple coupling adapter is used for making connections in the medium pressure portion of the British aircraft high pressure oxygen systems. It forms a gas-tight connection when used with  $\frac{1}{4}$  inch outside diameter tubing, an outer sleeve coupling, and a pipe collar coupling.

### CHARACTERISTICS:

- Material.....aluminum alloy
- Dimensions.....approximately  $\frac{13}{32}$  by  $\frac{13}{32}$  inches
- Weight.....approximately  $\frac{1}{32}$  pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Metal outer sleeve coupling, and Metal pipe collar coupling	28C/5722 28C/5698	128/5722 128/5698	46-2520 46-693

### ARMY

A. E. REFERENCE NUMBER: 46-1809. (Former A. E. Reference Number 97-1810)

A. S. C. STOCK NUMBER: 5500272475

TYPE DESIGNATION: None.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

### BRITISH

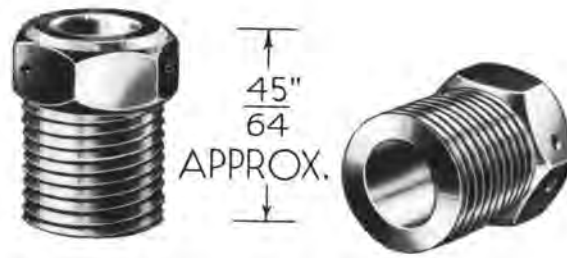
AIR MINISTRY SPECIFICATION: None

AIR MINISTRY DRAWING NUMBER: A. G. S. 906B

TYPE DESIGNATION: None

BRITISH STORES REFERENCE NUMBER: 28C/5710

AMERICAN STORES REFERENCE NUMBER: 128/5710



### COUPLING — METAL INNER SLEEVE

NAMES: Metal inner sleeve coupling  
Inner sleeve coupling

Coupling, oxygen inner sleeve

DESCRIPTION: This metal inner sleeve coupling is used for making connections in the medium pressure portion of the British aircraft high pressure oxygen systems. It is provided with  $\frac{1}{4}$  inch British straight external pipe threads (Whitworth form), for attachment to the outer sleeve coupling.

CHARACTERISTICS:

Material .....	aluminum alloy
Dimensions .....	approximately $\frac{17}{32}$ by $\frac{45}{64}$ inches
Weight .....	approximately $\frac{1}{32}$ pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Metal outer sleeve coupling, and	28C/5722	128/5722	46-2520
Metal pipe collar coupling, and	28C/5698	128/5698	46-693
Metal pipe nipple coupling	28C/5704	128/5704	46-1807

#### ARMY

A. E. REFERENCE NUMBER: 46-2515  
 A. S. C. STOCK NUMBER: 5500272500  
 PRODUCTION STATUS: Under procurement.  
 SHIPPING DATA: Shipped as a complete unit.

#### BRITISH

AIR MINISTRY SPECIFICATION: None  
 AIR MINISTRY DRAWING NUMBER: A. G. S. 905B  
 TYPE DESIGNATION: None  
 BRITISH STORES REFERENCE NUMBER: 28C/5716  
 AMERICAN STORES REFERENCE NUMBER: 128/5716



## COUPLING—METAL OUTER SLEEVE

NAMES: Metal outer sleeve coupling  
Outer sleeve coupling

Outer sleeve  
Coupling—oxygen outer sleeve

DESCRIPTION: This metal outer sleeve coupling is used for making pipe connections, or joints, in tubing in the medium pressure portion of the British aircraft high pressure oxygen systems. It is provided with  $\frac{1}{4}$  inch British straight internal pipe threads (Whitworth form) for attachment to the inner sleeve coupling.

**CHARACTERISTICS:**

Material ..... aluminum alloy  
Dimensions ..... approximately  $\frac{39}{64}$  by  $\frac{53}{64}$  inches  
Weight ..... approximately  $\frac{1}{32}$  pound

RELATIONSHIP OF PARTS: Used with:

Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Metal inner sleeve coupling, and	28C/5716	128/5716	46-2515
Metal pipe collar coupling, and	28C/5698	128/5698	46-693
Metal nipple coupling adapter, and	28C/5710	128/5710	46-1809
Metal nipple coupling	28C/5704	128/5704	46-1807

### ARMY

A. E. REFERENCE NUMBER: 46-2520. (Former A. E. Reference Number: 97-1880)

A. S. C. STOCK NUMBER: 5500272525

TYPE DESIGNATION: None.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

### BRITISH

AIR MINISTRY SPECIFICATION: None

AIR MINISTRY DRAWING NUMBER: A. G. S. 904B

TYPE DESIGNATION: None

BRITISH STORES REFERENCE NUMBER: 28C/5722

AMERICAN STORES REFERENCE NUMBER: 128/5722



### CONNECTION — BLANKING

NAMES: Blanking connection

DESCRIPTION: This blanking connection is used in British aircraft high pressure oxygen systems. It is provided with 1/4 inch British straight external pipe threads (Whitworth form), and screws into the appropriate union nut, Mark III, Mark IV, or Mark IV A, on the open end of the pipe to close the open pipe ends when a regulator or cylinder is removed.

CHARACTERISTICS:

- Material.....brass
- Dimensions.....approximately 23/32 by 3/4 inches
- Weight.....approximately 1/16 pound

RELATIONSHIP OF PARTS: Used with:

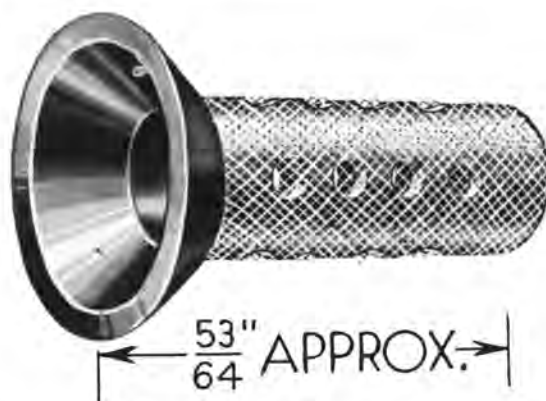
Item	British Stores Reference Number	American Stores Reference Number	A. E. Reference Number
Union nut, Mark III or Union nut, Mark IV	6D/40	106D/13	46-1820
Union nut, Mark IV or Union nut, Mark IV A	6D/241	106D/15	46-1822
	6D/487	106D/156	46-1823

#### ARMY

- A. E. REFERENCE NUMBER: 46-695
- TYPE DESIGNATION: None
- PRODUCTION STATUS: Under procurement.
- SHIPPING DATA: Shipped as a complete unit.

#### BRITISH

- AIR MINISTRY SPECIFICATION: 0.76
- AIR MINISTRY DRAWING NUMBER: Z7770
- TYPE DESIGNATION: None
- BRITISH STORES REFERENCE NUMBER: 6D/237
- AMERICAN STORES REFERENCE NUMBER: 106D/138

**FILTER—PIPE LINE OXYGEN****BRITISH MARK III A**

NAMES: Pipe line oxygen filter

Filter—unit oxygen pipe line

**DESCRIPTION:** This pipe line oxygen filter Mark III A is used in British aircraft high pressure oxygen systems. It prevents the entrance of foreign matter into the pipe lines and vital parts of the oxygen system. It is a bell-mouthed, hollow, brass cylinder, closed at one end, and four sets of holes, each set consisting of four holes, are drilled along its length. It is covered by a cylinder of fine mesh copper gauze. Two filters are normally required for each airplane. The filter is inserted in a two-way or three-way piece, Mark III A, and is held in position in the coned end of the two-way piece by means of a standard union nut and nipple. It can also be inserted in the  $\frac{1}{4}$  inch outside diameter line, where filtration is necessary.

**CHARACTERISTICS:**

Material.....brass  
 Dimensions.....approximately  $\frac{3}{16}$  by  $\frac{3}{8}$  by  $\frac{53}{64}$  inches  
 Weight.....approximately  $\frac{1}{8}$  pound

**RELATIONSHIP OF PARTS:** Used with:

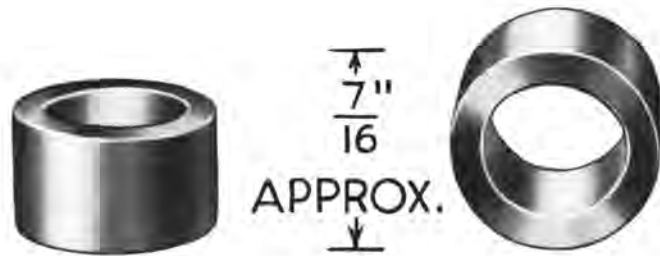
Item	British Stores Reference Number	American Stores Reference Numr	A. E. Reference Number
Two-way piece, Mark III A or Three-way piece, Mark III A	6D/575	106D/162	46-1830
	6D/603	106D/169	46-1833

**ARMY**

A. E. REFERENCE NUMBER: 46-1345  
 TYPE DESIGNATION: British Mark III A  
 A. S. C. STOCK NUMBER: 5500391300  
 PRODUCTION STATUS: Under procurement.  
 SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATION: 0.76  
 AIR MINISTRY DRAWING NUMBER: W8094  
 BRITISH AIR MINISTRY: S. I. S. 2605  
 TYPE DESIGNATION: Mark III A  
 BRITISH STORES REFERENCE NUMBER: 6D/574  
 AMERICAN STORES REFERENCE NUMBER: 106D/161



**BUSHING — RUBBER**

**BRITISH MARK I**

NAMES: Rubber bushing  
Rubber ring, Mark I  
Rubber bush

Union—oxygen low pressure rubber ring,  
Mark I

DESCRIPTION: This rubber bushing, Mark I, is used as a cushion or gasket in conjunction with a union nut, Mark I, in the low pressure portion of the British aircraft high pressure oxygen system.

**CHARACTERISTICS:**

Material ..... rubber  
Dimensions ..... approximately  $\frac{7}{16}$  by  $\frac{1}{4}$  inch  
Weight ..... approximately  $\frac{1}{32}$  pound

RELATIONSHIP OF PARTS: Used with: Union nut, Mark I, British Stores Reference Number 28C/5108, American Stores Reference Number 128/5108, A. E. Reference Number 46-1819.

**ARMY**

A. E. REFERENCE NUMBER: 46-2425. (Former A. E. Reference Number: 97-9470)

TYPE DESIGNATION: British Mark I

A. S. C. STOCK NUMBER: 5500931242

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

**BRITISH**

AIR MINISTRY SPECIFICATION: None

AIR MINISTRY DRAWING NUMBER: A. G. S. 838-5

TYPE DESIGNATION: Mark I

BRITISH STORES REFERENCE NUMBER: 28C/5109

AMERICAN STORES REFERENCE NUMBER: 128/5109





## ADAPTERS—OXYGEN EQUIPMENT

Owing to the difference in thread standards and to insure that Army, Navy, and British type oxygen equipment installed in any airplane may be serviced by either Army, Navy, or British oxygen supply equipment, adapters, provided with corresponding threads, have been designed and are now available.

THESE ADAPTERS CONSIST OF THREE MAJOR TYPES:

- Plain (slip-in-fit) Adapters for Low Pressure Oxygen Filler Valves.
- Union Adapters.
- Union Coupling Adapters.

### ADAPTERS—PLAIN (SLIP-IN-FIT TYPE)

The plain (slip-in-fit) adapters are used to recharge low pressure oxygen equipment from Army, Navy or British sources of supply. They are made of steel. One end is threaded to conform to the type of thread that is provided on the supply outlet, the opposite end is tapered to slip easily into the low pressure filler valve (A. E. Reference Number 46-2900).

### ADAPTERS—UNION

These union type adapters are used to recharge high pressure oxygen equipment from Army, Navy, or British sources of supply. They are made of brass, and are provided with a gasket in the female ends to insure a snug fit. Both ends are threaded to conform to the type of thread that is provided on the high pressure oxygen supply system.

### ADAPTERS—UNION COUPLING

The union coupling adapters are used to recharge high pressure oxygen equipment from Army, Navy, or British sources of supply. They are made of brass. One end is provided with a swivel nut, which is attached to the oxygen inlet system. The opposite end is threaded to conform to the type of thread provided on the oxygen supply outlet.

Owing to thread confusion, several union and union coupling adapters have been removed and replaced by AN standard adapters. They are as follows:

A. E. Reference Number	Army Drawing Number	Nomenclature	Superseded by	Nomenclature	A. E. Reference Number
46-450	42A6888	British to Army Oxygen Union Adapter	AN6006-1	British to Army or Navy Oxygen Supply Union Coupling Adapter	46-400
46-350	42A6898	Army to Navy Oxygen Union Adapter	AN6007-1	Navy to Army Oxygen Supply Union Adapter	46-600
46-550	42A6891	British to Navy Oxygen Union Adapter	AN6006-1	British to Army or Navy Oxygen Supply Union Coupling Adapter	46-400
46-500	42A6886	British to Navy Oxygen Coupling Adapter	AN6006-1	British to Army or Navy Oxygen Supply Union Coupling Adapter	46-400
46-300	42A6893	Army to British Oxygen Union Adapter	AN6005-1	Army or Navy to British Oxygen Supply Union Adapter	46-650



### ADAPTER—LOW PRESSURE OXYGEN FILLER VALVE

AN6027-1

NAMES: Low pressure oxygen filler valve adapter                      Oxygen filler valve adapter  
Adapter—oxygen filler valve    Filler valve adapter

DESCRIPTION: This low pressure oxygen filler valve adapter is used to recharge low pressure oxygen cylinders installed in aircraft from an Army oxygen supply. One end has a 1/4 inch standard pipe thread, which connects to the oxygen supply line. The opposite end is tapered for rapid connection (slip-in-fit) into the filler valve installed in the airplane.

CHARACTERISTICS:

Materials.....steel  
Dimensions.....approximately 9/16 by 1 3/4 inches  
Weight.....approximately 1/16 pound

RELATIONSHIP OF PARTS: Used with:  
Low pressure oxygen filler valve, part number AN6024-3, A. E. Reference Number 46-2900.

### ARMY

A. E. REFERENCE NUMBER: 46-685  
AN DRAWING NUMBER: AN6027  
AN PART NUMBER: AN 6027-1  
ARMY DRAWING NUMBER: 40A8475  
A. S. C. STOCK NUMBER: 5500027625 (AN Part Number)                      5500035200 (Army Part Number)  
PRODUCTION STATUS: Under procurement.  
SHIPPING DATA: Shipped as a complete unit.



**ADAPTER—ARMY LOW PRESSURE TO NAVY OXYGEN SUPPLY**

ARMY DRAWING NUMBER 42A7543

NAMES: Army low pressure to Navy oxygen supply adapter      Filler valve adapter  
Adapter—Army to Navy low pressure oxygen      Low pressure oxygen filler valve adapter  
Oxygen filler valve adapter

DESCRIPTION: This low pressure oxygen adapter is used to recharge low pressure oxygen cylinders installed in airplanes from a Navy type oxygen supply. The male end has a  $\frac{29}{32}$ -14 NS-3 thread which connects to the Navy type oxygen supply line. The opposite end is tapered for rapid connection (slip-in-fit) into the filler valve installed in the airplane.

CHARACTERISTICS:

Material.....steel  
Dimensions.....approximately  $\frac{15}{16}$  by  $2\frac{1}{8}$  inches  
Weight.....approximately  $\frac{1}{4}$  pound

RELATIONSHIP OF PARTS: Used with:

Low pressure oxygen filler valve, part number AN 6024-3, A. E. Reference Number 46-2900.

**ARMY**

A. E. REFERENCE NUMBER: 46-250  
ARMY DRAWING NUMBER: 42A7543  
A. S. C. STOCK NUMBER: 5500006100  
TECHNICAL ORDER NUMBER: 03-50-10  
PRODUCTION STATUS: Under procurement.  
SHIPPING DATA: Shipped as a complete unit.

**NAVY**

PROCUREMENT STATUS: Under procurement.



### ADAPTER—ARMY LOW PRESSURE TO BRITISH OXYGEN SUPPLY

ARMY DRAWING NUMBER 42A6950

NAMES: Army low pressure to British oxygen supply adapter  
 Adapter, Army to British low pressure oxygen

Oxygen filler valve adapter  
 Low pressure oxygen adapter

DESCRIPTION: This low pressure oxygen adapter is used to recharge low pressure oxygen cylinders installed in aircraft from a British type oxygen supply. One end has a standard 1/4 inch British straight external pipe thread (Whitworth form), which connects to the British oxygen supply line. The opposite end is tapered for rapid connection (slip-in-fit) into the filler valve installed in the airplane.

CHARACTERISTICS:

Material.....steel  
 Finish.....zinc or cadmium plate  
 Dimensions.....approximately 9/16 by 1 15/16 inches  
 Weight.....approximately 1/16 pound

RELATIONSHIP OF PARTS: Used with:

Low pressure oxygen filler valve, part number AN6024-3, A. E. Reference Number 46-2900.

#### ARMY

A. E. REFERENCE NUMBER: 46-200  
 ARMY DRAWING NUMBER: 42A6950  
 A. S. C. STOCK NUMBER: 5500006050  
 TECHNICAL ORDER NUMBER: 03-50-10  
 PRODUCTION STATUS: Under procurement.  
 SHIPPING DATA: Shipped as a complete unit.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
 Models are used in services as noted in column 4  
 A-Army, N-Navy, B-British, C-Commercial

Manufacturer	Manufacturer's Model Identification	Manufacturer's Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	American Stores Reference Number
Bastian-Blessing Co.	None	None	A-B	5500006050	03-50-10	106D/197
A. Schrader's Son	None	2237	A-B	5500006050	03-50-10	106D/197



## **ADAPTER—NAVY TO ARMY OXYGEN SUPPLY UNION**

**AN6007-1**

**NAMES:** Navy to Army oxygen supply union adapter      Oxygen—union adapter  
Adapter assembly—Navy to Army oxygen union      High pressure oxygen union adapter

**DESCRIPTION:** This high pressure oxygen union adapter is used to recharge Navy type high pressure oxygen cylinders from an Army type high pressure oxygen supply, or Army high pressure oxygen cylinders from a Navy high pressure supply. The male end has a 0.903-14 NS-3 thread; the female end has a  $\frac{29}{32}$ -14 NS-3 thread. By using these thread sizes, this union adapter is interchangeable with all combinations of Army and Navy high pressure oxygen cylinders and charging supply equipment.

**CHARACTERISTICS:**

Material . . . . . brass  
Dimensions . . . . . approximately  $1\frac{1}{8}$  by  $1\frac{7}{16}$  inches  
Weight . . . . . approximately  $\frac{1}{4}$  pound

**RELATIONSHIP OF PARTS:** Used with:

High pressure oxygen filler valve, part number AN 6013-1, A. E. Reference Number 46-2950

### **ARMY**

A. E. REFERENCE NUMBER: 46-600  
AN DRAWING NUMBER: AN6007  
AN PART NUMBER: AN6007-1  
ARMY DRAWING NUMBER: 42A6900  
A. S. C. STOCK NUMBERS: 5500076000, (AN Part Number) 5500006850 (Army Part Number)  
TECHNICAL ORDER NUMBER: 03-50-10  
PRODUCTION STATUS: Under procurement. Supersedes Army to Navy oxygen union adapter, 42A6898.  
SHIPPING DATA: Shipped as a complete unit including rubber gasket.

### **NAVY**

PROCUREMENT STATUS: Under procurement.



## ADAPTER—ARMY OR NAVY TO BRITISH OXYGEN SUPPLY UNION

AN6005-1      NAVY—SEE BELOW

NAMES: Army or Navy to British oxygen supply union adapter  
Oxygen supply union adapter

Adapter—Army or Navy to British oxygen union  
Adapter assembly—Navy to British oxygen union

DESCRIPTION: This Army or Navy to British oxygen supply union adapter is used to recharge Army or Navy high pressure oxygen cylinders from a British high pressure oxygen supply. The male end has a standard 1/4 inch British straight pipe thread (Whitworth form), which connects to the British supply line. The female end has a 29/32-14 NS-3 thread which connects to the Army or Navy oxygen inlet system.

CHARACTERISTICS:

Material.....	brass
Dimensions.....	approximately 1 1/8 by 1 1/2 inches
Weight.....	approximately 3/16 pound

RELATIONSHIP OF PARTS: Used with:

High pressure filler valve, part number AN6013-1, A. E. Reference Number 46-2950

### ARMY

A. E. REFERENCE NUMBER: 46-650

AN DRAWING NUMBER: AN6005

AN PART NUMBER: AN6005-1

ARMY DRAWING NUMBER: 42A6896 (Superseded)

A. S. C. STOCK NUMBER: 5500005900

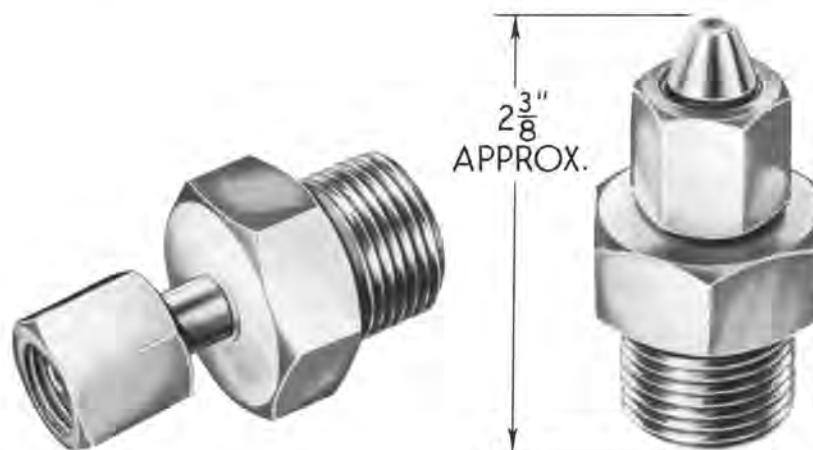
TECHNICAL ORDER NUMBER: 03-50-10

PRODUCTION STATUS: Under procurement. This union adapter supersedes the Army to British supply union adapter, drawing number 42A6893.

SHIPPING DATA: Shipped either as a complete unit including rubber gasket or attached to high pressure filler valve by means of a six inch chain.

### NAVY

PROCUREMENT STATUS: Under procurement.



### ADAPTER—BRITISH TO ARMY OR NAVY OXYGEN SUPPLY UNION COUPLING

AN6006-1      NAVY—SEE BELOW

- NAMES: British to Army or Navy oxygen supply union coupling adapter  
 Adapter—British to Army or Navy oxygen supply union  
 Adapter assembly—British to Army or Navy oxygen coupling  
 Adapter assembly—British to Army oxygen coupling  
 Oxygen supply union coupling adapter  
 High pressure oxygen union coupling adapter

DESCRIPTION: This high pressure oxygen union coupling adapter is used to recharge British high pressure oxygen cylinders from Army or Navy type oxygen supply. The coupling nut has 1/4 inch British internal straight pipe thread (Whitworth form), which connects to either the refiller line valve, when cylinders are permanently manifolded, or to the cylinder valve, when cylinders are removed for recharging. The opposite end has 0.093-14 NS-3 external threads which connect to the Army or Navy oxygen supply.

CHARACTERISTICS:

- Material.....brass
- Dimensions.....approximately 1 1/8 by 2 3/8 inches
- Weight.....approximately 5/16 pound

RELATIONSHIP OF PARTS: Used with:

High pressure line or filler valve, American stores reference number 106D/6 or British stores reference number 6D/223, A. E. Reference Number 46-2880, and cut-off valve, American stores reference number 106D/54 or British stores reference number 6D/264, A. E. Reference Number 46-2877.

**ARMY**

- A. E. REFERENCE NUMBER: 46-400
- AN DRAWING NUMBER: AN6006
- AN PART NUMBER: AN6006-1
- ARMY DRAWING NUMBER: 42A6883 (Superseded)
- A. S. C. STOCK NUMBERS: 5500007300, 5500006650
- TECHNICAL ORDER NUMBER: 03-50-10
- PRODUCTION STATUS: Under procurement. Supersedes British to Army oxygen adapter, drawing number 42A6888; British to Navy oxygen coupling adapter, drawing number 42A6886; British to Navy oxygen union adapter, drawing number 42A6891.
- SHIPPING DATA: Shipped as a complete unit.

**NAVY**

PROCUREMENT STATUS: Under procurement.

(RESTRICTED)



**OXYGEN EQUIPMENT  
MISCELLANEOUS EQUIPMENT**