

AT A GLANCE RADIO VALVE AND TV TUBE EQUIVALENTS

BRITISH
U.S.A.
EUROPEAN
AND
SERVICE TYPES

by
B.B. BABANI



RECEIVING
TELEVISION
INDUSTRIAL

INTRODUCTION

During the last two years...

**THE INTERNATIONAL
"AT A GLANCE"
RADIO VALVE AND
T.V. TUBE EQUIVALENTS
MANUAL**

BY

B. B. BABANI

BERNARDS (Publishers) LTD.
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INTRODUCTION

During the last two years many hundreds of new type valves and tubes have been introduced and in order to keep this book within reasonable dimensions only valves that are Octal, Loctal, Miniature (B7G) or Noval (B9A) based are included. Other based types such as B9G, B4 or UX5, etc., are now completely obsolete and deleted from this compilation.

If details of transmitting tubes and semi-conductors equivalents are desired, reference should be made to Bernards Radio Manual No. 158.

To use the table of commercial equivalents, find the valve or tube to be replaced in the index. Against the type there is shown a number denoting the line in the equivalents portion of the book in which this type appears; every other type on this line is a directly interchangeable equivalent.

When replacing a valve in the H.F. stages of a receiver re-alignment is desirable to ensure peak performance.

Attention is drawn to industrial types quoted in the Equivalents Table. These were developed to meet stringent demands where reliability is of the utmost importance. An example is type 6058, for normal working this may be replaced with a 6AL5 or an EB91, but if the equipment is intended for continuous working conditions an industrial long life type should be selected.

Many of the early Octal based valves are now becoming obsolete, and in many cases rather rare equivalents have been shown which are not necessarily identical electrical equivalents, it has been felt that this was necessary so as to enable effective substitution to take place, and it is suggested that with these early types, reference should be made to the five radio valve characteristic manuals published by this Company, so that a check can be effected on the actual operating characteristics and this will enable any minor changing of biasing, etc., to be corrected. The five books in question are:—

Comprehensive Radio Valve Guide Book 1. (Bernards Radio Manual No. 100). Price 5/—.

Comprehensive Radio Valve Guide Book 2. (Bernards Radio Manual No. 121). Price 5/—.

Comprehensive Radio Valve Guide Book 3. (Bernards Radio Manual No. 143). Price 5/—.

Comprehensive Radio Valve Guide Book 4. (Bernards Radio Manual No. 157). Price 5/—.

Comprehensive Radio Valve Guide Book 5. (Bernards Radio Manual No. 178). Price 6/—.

The C.V. and Armed Forces sections will be found particularly useful when attempting to identify valves obtained from ex-Government sources.

It should be noted that valves with European type numbers are produced by many British manufacturers including Brimar, G.E.C., Ediswan, etc. Valves with American type numbers are also manufactured by a large number of British makers. Valves with European type numbers are produced in Europe, the Middle East, the Far East and South America and manufactured by a considerable number of different makers.

Australian and Japanese markets mainly utilise U.S.A. designations for their valve types.

We invite all authors, whether new or well established, to submit manuscripts for publication. The manuscripts may deal with any facet of electronics but should always be practical. Any circuit diagrams that may be included should have been thoroughly checked by the author. If you are considering trying your hand at writing this type of book we suggest that you let us have a short summary of the subject you intend to cover. We will then be able to let you know the size of book required and perhaps give you some advice on presentation.

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3AU6	436	6BA6	200	6DX8	190	6Q7	309
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3BY7	446	6BD7A	118	6EH7	206	6R7	279
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3DL4	462	6BE7	230	6EL7	210	6S2A	237
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3EH7	448	6BH6	104	6ES6	204	6SL7	87
3EJ7	449	6BJ5	318	6ES8	180	6SN7	35
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6U8	201	10LD12	389	19BX6	412	50C5	296
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6V4	239	10M2	404	19CS4	405	55N3	401
6V6	36	10P13	89	19D8	397	75B1	473
6X2	231	10P14	429	19DA5	415	83A1	457
6X4	241	10P18	399	19DC8	392	85A1	94
6X5	254	10PL12	398	19EH7	421	85A2	277
7A7	316	12AC5	427	19EJ7	422	108C1	461
7AN7	353	12AH8	319	19FL8	392	150A2	474
7AU7	433	12AJ8	291	19T8	288	150B2	95
7B5	247	12AL5	406	19X3	382	150B3	475
7B6	23	12AT6	289	19Y3	384	150C2	459
7B7	22	12AT7	171	20A3	258	150C3	458
7C5	247	12AU6	293	20D3	319	807	144
7C6	315	12AU7	172	20D4	186	954	273
7D9	222	12AV6	290	21A6	375	955	278
7D10	146	12AX7	173	21CJP4	14	5591	213
7D11	149	12BA6	292	21CLP4	16	5624	101
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7EK7	358	12BK6	290	21DKP4	9	5641	261
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7G7	162	12DA6	414	22FC7	395	5672	70
7H7	316	12DL4	393	24AXP4	18	5678	67
7HG8	365	12DT7	173	25A6	27		76
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8D5	306	13D1	322	30AE3	385	5902	265
8D6	194	13D2	310	30C1	363	5910	48
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8GW8	451	13GC8	135	30F5	134	5962	108
8HG8	365	14ABP4	343	30F27	344	6005	221
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9AB4	407	14AHP4A	17	30FL12	361	6008	75
9AK8	347	14GB5	454	30FL13	360	6021	268
9AQ8	354	14GW8	372	30L1	353	6024	198
9D4	163	14K7	426	30L15	358	6046	460
9D6	199	14KP4A	326	30L17	359	6057	173
9EN7	367	14L7	424	30P4	90	6059	306
9FG6	387	15A6	377	30P12	300	6060	171
9GB8	362	15BD7A	390	30P16	376	6063	155
9U8	364	15CW5	378	30P18	378	6064	198
10BM8	465	15DQ8	370	30P19	379	6065	199
10BQ5	468	16A5	376	30PL1	135	6066	119
10C1	455	16A8	368	30PL12	368	6067	172
10C14	397	16AQ3	439	30PL13	374	6080	158
10CV5	469	16GK8	374	30PL14	373	6084	98
10D2	406	17BQP4	15	31A3	287	6085	96
10DX8	466	17BTP4	13	31AV3	403	6086	37
10ER5	420	17C8	391	35W4	298	6096	213
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10F9	427 & 335	17Z3	383	45A5	429	6157	418
10F18	133	18D3	185	45B5	399	6158	307
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10GV8	467	19AJ8	397	45DX8	411	6197	83

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6205	266	AW43-80	13	CV216	458	CV887	315
6218	100	AW43-88	5	CV273	91	CV895	316
6227	99	AW47-10	341	CV283	115	CV901	21
6265	104	AW47-90	6	CV284	473	CV918	25
6267	196	AW47-91	7	CV286	474	CV925	310
6305	479	AW47-97	8	CV287	475	CV927	299
6351	419	AW53-80	16	CV303	162	CV1053	163
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6391	246	AZ31	34	CV387	323	CV1347	160
6443	235	B36	310	CV394	264	CV1352	227
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6488	169	B152	171	CV426	231	CV1377	286
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6550	149	B319	174 & 353	CV449	277	CV1535	239
6574	31	B329	172	CV450	251	CV1581	160
6661	104	B339	173	CV452	119	CV1741	149
6662	106	B349	358	CV453	215	CV1758	45
6681	281	B719	175	CV454	200	CV1802	77
6686	226	B729	244	CV455	171	CV1803	80
6687	105	C9A	336	CV465	168	CV1820	85
6688	212	C12A	425	CV466	169	CV1821	74
6689	102	C14FM	332	CV467	166	CV1824	81
6778	276	C17AA	5	CV468	276	CV1830	84
6829	108	C19AK	6	CV469	270	CV1832	459
6922	103	C21AA	9	CV472	246	CV1833	461
6923	38	C21KM	14	CV474	257	CV1862	221
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7036	105	C23AK	10	CV476	246	CV1865	125
7062	108	C23AKT	337	CV484	52	CV1886	124
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7119	110	CC86E	176	CV492	173	CV1888	125
7125	123	CCa	112	CV493	241	CV1894	282
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7406A	329	CME1901	8	CV574	254	CV1949	260
7475	476	CME1902	6	CV575	301	CV1951	93
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7534	107	CME1906	3	CV586	250	CV1975	30
7561	460	CME2101	330	CV703	26	CV1985	87
7601A	8	CME2103	9	CV753	39	CV1988	35
7643	97	CME2301	12	CV755	78	CV2105	69
7693	104	CME2302	10	CV766	280	CV2127	146
7694	106	CME2303	11	CV768	308	CV2128	186
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CV2862	34	DC80	63	E81CC	171	ECC82	172
CV2901	196	DCC90	43	E81L	226	ECC83	173
CV2912	279	DCF60	73	E82CC	172	ECC84	174
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CV2940	249	DF33	74	E83CC	281	ECC86	176
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CV2980	58	DF67	75	E86C	129	ECC91	178
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CV3883	271	DF652	68	E91H	105	ECC802S	172
CV3886	164	DF654	76	E91N	258	ECC803	173
CV3887	165	DF703	71	E92CC	109	ECC804	244
CV3888	161	DF904	48	E95F	213	ECC960	181
CV3889	252	DH63	309	E99F	106	ECC962	109
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CV3891	255	DH76	24	E180CC	108	ECF82	201
CV3908	104	DH77	119	E180F	212	ECF86	184
CV3912	41	DH81	23	E181CC	245	ECF804	185
CV3928	267	DH109	389	E182CC	110	ECH21	159
CV3929	266	DH118	424	E186F	111	ECH33	160
CV3930	276	DH119	390	E188CC	112	ECH35	160
CV3986	268	DH142	424	E235L	130	ECH42	161
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CV5077	375	DL36	81	EB91	115	EF39	163
CV5086	312	DL63	279	EBC33	170	EF41	164
CV5094	220	DL67	82	EBC41	272	EF42	165
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CV5115	320	DL71	478	EBC81	118	EF53	242
CV5126	137	DL72	323	EBC90	119	EF70	166
CV5140	38	DL74M	24	EBC91	120	EF71	167
CV5144	369	DL82	23	EBF32	282	EF72	168
CV5156	197	DL91	64	EBF80	121	EF73	169
CV5188	110	DL92	52	EBF81	136	EF74	246
CV5192	353	DL93	53	EBF83	122	EF80	194
CV5214	181	DL94	54	EBF89	123	EF81	145
CV5215	183	DL95	55	EBL21	88	EF82	146
CV5281	174	DL96	56	EC55	91	EF85	195
CV5331	180	DL98	57	EC70	276	EF86	196
CV5358	177	DL145	325	EC71	276	EF89	197
CV5412	60	DL620	70	EC80	124	EF89F	147
CV5434	229	DL652	70	EC81	125	EF91	198
CV5809	114	DL700	83	EC84	137	EF92	199
CV5810	207	DM70	58	EC86	126	EF93	200
CV5831	206	DM71	59	EC88	127	EF94	202
CV5905	233	DM160	60	EC90	128	EF95	213
D3A	66	DN143	88	EC91	138	EF96	203
D61	269	DY30	84	EC92	139	EF97	204
D63	338	DY80	65	EC93	140	EF98	205
D77	115	DY86	61	EC94	141	EF183	206
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EF731	167	EZ90	241	NI45	89	PY88	385
EF732	168	EZ91	262	NI47	248	PY801	386
EF734	266	GZ30	284	NI48	247	PZ30	304
EF806S	196	GZ31	301	NI50	252	QE06-50	144
EF811	208	GZ32	285	NI51	253	QS75/20	473
EF812	210	GZ34	286	NI52	375	QS83/3	277
EF814	211	GZ37	86	NI53	377	QS92/10	476
EF861	212	H63	313	NI54	376	QS95/10	474
EF905	213	HA2	278	NI55	151	QS150/15	475
EH90	214	HAA91	406	N308	90	QV05-25	144
EH900/S	105	HABC80	288	N309	377	R10	479
EK90	215	HBC90	289	N329	376	R12	231
EL22	247	HBC91	290	N339	375	R14	304
EL33	248	HCH81	291	N359	375	R16	317
EL34	149	HD14	85	N369	300	R17	418
EL35	250	HF93	292	N379	378	R18	235
EL36	249	HF94	293	N389	379	R19	65
EL37	250	HK90	294	N709	219	R20	340
EL38	251	HL90	295	N727	221	R52	321
EL39	250	HL92	296	OA2	459	TD03-10	91
EL41	252	HL94	297	OB2	461	U25	339
EL42	253	HY90	298	OD3	458	U26	340
EL71	265	HZ90	299	OE3	94	U31	303
EL80	150	KF35	280	OG3	277	U37	317
EL81	216	KL35	308	PABC80	347	U43	231
EL82	217	KT32	460	PC86	348	U47	339
EL83	218	KT33	27	PC88	349	U49	340
EL84	219	KT61	248	PC92	350	U50	321
EL85	151	KT63	36	PC93	351	U52	286
EL86	220	KT66	250	PC95	388	U54	86
EL90	221	KT71	20	PC97	352	U70	254
EL91	222	KT81	247	PCC84	353	U74	28
EL95	223	KT88	149	PCC85	354	U76	28
EL136	224	KTW61	30	PCC88	355	U78	241
EL180	152	KTW63	32	PCC89	356	U82	21
EL500	225	KTW74M	25	PCC189	357	U118	287
EL803/S	218	KTZ63	29	PCC805	358	U119	402
EL820	216	L63	311	PCC806	359	U142	287
EL821	146	L77	128	PCE80	360	U143	34
EL822	146	LN119	398	PCE82	361	U145	287
EL861	226	LN152	188	PCE800	362	U147	254
EM34	264	LN309	369	PCF80	363	U149	21
EM35	263	LN319	135	PCF82	364	U150	255
EM80	227	LN329	373	PCF86	365	U151	231
EM81	228	LN339	362	PCF87	366	U152	382
EM84	229	LZ319	363	PCF800	367	U153	383
EM85	153	LZ329	363	PCF805	345	U154	384
EM87	243	LZ339	367	PCL82	368	U191	405
EM840	229	MW18-2	430	PCL83	369	U192	384
EN32	31	MW22-3	336	PCL84	370	U193	386
EN70	257	MW31-74	19	PCL85	371	U251	334
EN91	258	MW36-24	326	PCL86	372	U291	381
EN92	259	MW43-64	15	PCL88	373	U309	382
EN93	260	MW43-69	15	PCL800	374	U319	384
EQ80	230	MW53-20	14	PE81	344	U329	334
EY51	231	MW53-80	14	PF86	346	U339	405
EY70	261	MW61-80	480	PL36	302	U349	386
EY80	232	N14	80	PL81	375	U381	402
EY81	233	N16	79	PL82	376	U404	287
EY81F	154	N17	52	PL83	377	U709	240
EY82	234	N18	55	PL84	378	U718	255
EY84	235	N19	54	PL302	379	UAA91	406
EY86	236	N25	56	PL500	380	UABC80	389
EY87	237	N63	36	PL820	375	UAF42	423
EY88	238	N66	250	PM84	387	UB91	406
EY89	283	N77	222	PY31	303	UBC41	424
EZ22	21	N78	318	PY32	381	UBC81	390
EZ35	254	NI18	89	PY80	382	UBF80	391
EZ40	255	NI19	399	PY81	383	UBF89	392
EZ80	239	NI42	429	PY82	384	UC88	393
EZ81	240	NI44	222	PY83	334	UC92	407

Valve Type	Line No.	Valve Type	Line No.	Valve Type	Line No.	Valve Type	Line No.
UC95	420	W63	32	X81/M	324	Y25	58
UCC84	408	W76	25	X118	455	Y61	263
UCC85	394	W77	199	X119	397	Y63	263
UCC88	409	W81	316	X142	426	Y64	263
UCC89	395	W118	427	X143	159	Y119	400
UCC189	396	W119	133	X145	455	YC88	462
UCF80	410	W142	427	X147	160	YC95	305
UCH42	426	W143	316	X148	324	YCC89	463
UCH81	397	W145	335	X150	161	YCC189	464
UCL82	398	W147	163	X719	186	YCL82	465
UCL84	411	W148	316	X727	215	YCL84	466
UF41	427	W149	22	XAA91	431	YCL86	467
UF42	428	W150	164	XC88	440	YF183	470
UF80	412	W719	195	XC95	432	YF184	471
UF85	413	W727	200	XCC82	433	YL84	468
UF89	414	W729	132	XCC89	441	YL86	469
UF183	421	W739	131	XCC189	434	YY88	157
UF184	422	WD119	392	XCF80	442	Z14	74
UL41	429	WD142	423	XCF82	452	Z63	29
UL84	399	WD150	271	XCH81	443	Z77	198
UM34	256	WD709	121	XCL82	435	Z90	242
UM35	404	X14	77	XCL84	444	Z142	428
UM80	400	X17	49	XCL86	451	Z145	456
UM81	415	X18	50	XF80	445	Z150	165
UM84	416	X20	50	XF85	446	Z152	194
UQ80	417	X25	51	XF86	447	Z319	419
UU9	255	X61M	160	XF94	436	Z329	134
UU12	240	X63	92	XF183	448	Z719	194
UY41	287	X64	93	XF184	449	Z729	196
UY82	401	X65	160	XL36	437	Z749	210
UY85	402	X71M	26	XL84	450	ZA2	273
UY89	403	X73M	314	XL86	438	ZD17	40
V987B	474	X76M	26	XL136	453	ZD25	42
W17	44	X77	215	XL500	454	ZD152	121
W25	46	X79	320	XY88	439		

ROYAL AIR FORCE VALVES WITH COMMERCIAL EQUIVALENTS

Services No.	Commercial Equivalent	Services No.	Commercial Equivalent	Services No.	Commercial Equivalent	Services No.	Commercial Equivalent
VGT121	T41	VR56	EF36	VR118	KT2	VT60A	807
VGT128	GTIC	VR57	EK32	VR119	DDL4	VT61	RK34
VI77	EM31	VR59	955	VR122	41MXP	VT61A	4074B
VI103	EM35	VR65	SP61	VR123	EF8	VT62	TY1-50
VR18	215SG	VR65A	SP41	VR124	HP4101	VT73	H63
VR19	PM2	VR66	P61	VR125	MS/PenB	VT74	6J7
VR21	210LF	VR67	6J5	VR126	45H	VT75	KT66
VR22	220PA	VR78	D1	VR129	MS/Pen	VT76	DA41
VR27	210LF	VR82	220TH	VR130	HL23	VT79	KT8
VR28	220VSG	VR83	210VPT	VR136	EF54	VT80	4307A
VR32	220B	VR91	EF50	VR137	EC52	VT81	4052A
VR35	QP21	VR91A	EF50	VR502	KT32	VT88	832
VR37	MH4	VR92	EA50	VR503	KT33C	VT96	5B/502A
VR38	MHL4	VR95	954	VR505	MH41	VT104	PT15
VR40	PX25	VR95A	954	VS68	STV280/40	VT127	Pen46
VR41	PM12M	VR99	X66	VS69	STV280/80	VU29	ESU150
VR43	210PG	VR100	KTW62	VS70	7475	VU39	MUI4
VR44	210DDT	VR101	MHLD6	VT20	220P	VU39A	R3
VR45	X56	VR102	BL63	VT23	230XP	VU64	U12/14
VR46	PT25H	VR105	ML6	VT25	DET25	VU71	5U4
VR47	TZ05-20	VR106	9D2	VT45	X56	VU72	GU5
VR49	210SPT	VR107	15D2	VT50	HL2K	VUI13	U17
VR53	EF39	VR108	8D2	VT51	Pen220A	VUI20	SU2150A
VR54	EB34	VR109	4D1	VT52	EL32	VUI34	HVR2
VR55	EBC33	VR117	41MTL	VT60	807		

COMMERCIAL VALVE EQUIVALENTS

Line No.	Mullard and European	Ediswan Mazda	Brimar	G.E.C.	U.S.A.	C.V.	European	Line No.
1				A2521	6CR4			1
2				A2599	6CT4			2
3	A47-13W	CME1906						3
4	A59-13W	CME2306						4
5	AW43-88	CME1706	C17AA		17CVP4			5
6	AW47-90	CME1902	C19AK					6
7	AW47-91	CME1903						7
8	AW47-97	CME1901		7601A				8
9	AW53-88	CME2103	C21AA		21DKP4			9
10	AW59-90	CME2302	C23AK					10
11	AW59-91	CME2303						11
12	AW59-95	CME2301		7701A				12
13	AW43-80				17BTP4			13
14	MW53-80		C21KM		21CJP4		MW53-20	14
15	MW43-69				17BQP4		MW43-64	15
16	AW53-80				21CLP4			16
17	AW36-80				14AHP4A			17
18	AW61-88				24AXP4			18
19	MW31-74				12XP4A			19
20				KT71	50L6	571		20
21	EZ22			U82	7Y4	901		21
				U149	7Z4	346		
22				W149	7B7	522		22
23				DH81	7B6	882		23
				DL82				
24				DH76	12Q7			24
				DL74M				
25				KTW74M	12K7	918		25
				W76				
26				X71M	12K8	703		26
				X76M				
27				KT33	25A6	549		27
28				U74	35Z4	2500		28
				U76				
29				KTZ63	6J7	1936		29
				Z63				
30				KTW61	6S7	1975		30
31	EN32				6S74			31
32				KTW63	6K7	1942		32
				W63				
33				DH73	6Q6	500		33
					6T7			
34	AZ31			U143		2862		34
35	ECC32			B65	6SN7	1988		35
36				N63	6K6	1938		36
				KT63	6F6			
					6V6			
37	18042				6086			37
38	EA52				6923	5140		38
39	DA90	ID13			1A3	753		39
40	DAF91	IFD9		ZD17	1S5	784		40
41	DAF92				1U5	3912		41
42	DAF96	IFDI		ZD25	1AJ5			42
					1AH5			
43	DCC90				3A5	808		43
44	DF91	IF3		W17	1T4	785		44
45	DF92	IF2			1L4	1758		45
46	DF96	IFI		W25	1AJ4			46
					1AF4			
47	DF97				1AN5			47
48	DF904				1U4	2507		48
					5910			
49	DK91	IC1		X17	1R5	782		49
50	DK92	IC2		X20	1AC6			50
				X18				
51	DK96	IC3		X25	1AB6			51
52	DL92	IP10		NI7	3S4	484		52
						820		
						2370		
53	DL93				3A4	807		53
						2300		
						2390		

Commercial Valve Equivalents (Contd.)

Line No.	Mullard and European	Ediswan Mazda	Brimar	G.E.C.	U.S.A.	C.V.	European	Line No.
54	DL94	IPII		NI9	3V4	2983		54
55	DL95			NI8	3Q4	818		55
56	DL96	IPI		N25	3E5			56
					3C4			
57	DL98				3B4	2240		57
58	DM70	IMI		Y25	IM3	2980		58
59	DM71				IN3			59
60	DM160				6977	5412		60
61	DY86				IS2			61
62	DY87				IS2A			62
63	DC80				IE3			63
64	DL91				IS4	783		64
65	DY80		R19		IX2			65
66	D3a				7721			66
67	DF60				5678	2254		67
68	DF62				1AD4	2237	DF652	68
69	DL70				6373	2105		69
70	DL620				5672	2238	DL652	70
71	DF703				5886			71
72	DC70				6375	2275		72
73	DCF60				IV3			73
74	DF33			Z14	IN5	1821		74
75	DF67				6008			75
76	DF654				5678			76
77	DK32			X14	IA7	1802		77
					IB7			
78	DL31				IA5	755		78
79	DL33			NI6	3Q5	819		79
80	DL35			NI4	IC5	1803		80
81	DL36				IQ5	1824		81
82	DL67				6007			82
83	DL700				6197			83
84	DY30				IB3	1830		84
85	DAC32			HDI4	IH5	1820		85
86	GZ37			U54		378		86
87	ECC35				6SU7	1985		87
					6SL7	569		
88	EBL21			DNI43				88
89		10P13		NI45				89
				NI18				
90		30P4		N308	25GF6			90
91	EC55			DET22	5861	273	TD03-10	91
92				X63	6A8	579		92
93				X64	6L7	1951		93
94	85A1				0E3			94
95	I50B2				6354	2225		95
96	E80CC				6085			96
97	E80CF				7643			97
98	E80F				6084	2729		98
99	E80L				6227			99
100	E80T				6218			100
101	E82M				5624			101
102	E83F				6689			102
103	E88CC				6922	2492		103
104	E90F				6BH6	3908		104
					7693			
					6265			
					6661			
105	E91H				6687		EH900/S	105
					5915/A			
					7036			
106	E99F				6662			106
					7694			
107	E130L				7534			107
108	E180CC				5962			108
					7062			
					6829			
109	E92CC						ECC962	109
110	E182CC				7119	5188		110
111	E186F				7737			111
112	E188CC				7308	4108	CCa	112
113	E280F				7722			113

Commercial Valve Equivalents (Contd.)

Line No.	Mullard and European	Ediswan Mazda	Brimar	G.E.C.	U.S.A.	C.V.	European	Line No.
114	E810F				7788	5809		114
115	AAA91	6D2		D77	6AL5	283		115
	EB91			DI52	5726	140		
	E91AA				6058	4025		
116	AAA901S	6LD12		DH719	6T8			116
	EABC80				6AK8			
117	EAM86				6GX8			117
118	EBC81	6LD13			6BD7A			118
119	EBC90			DH77	6BT6	452		119
					6AT6			
					6066			
120	EBC91				6AV6	2526		120
					6AQ6			
121	EBF80			ZDI52	6N8			121
				WD709				
122	EBF83				6DR8			122
123	EBF89	6FD12			7125			123
					6DC8			
124	EC80				6Q4	1886		124
125	EC81				6R4	1865		125
						1888		
126	EC86				6CM4			126
127	EC88				6DL4			127
128	EC90			L77	6C4	133		128
129	E86C						EC806S	129
130	E235L				7751			130
131		6F18		W739	6EC7			131
132		6F20		W729				132
133		10F18		W119	13EC7			133
134		30F5		Z329	7ED7			134
135		30PL1		LN319	13GC8			135
136	EBF81				6AD8			136
137	EC84				6AJ4	5126		137
138	EC91	6L34			6AQ4	417		138
139	EC92				6AB4			139
140	EC93				6BS4			140
141	EC94				6AF4	5036		141
142	ECC180				6BQ7A			142
143	ECH80				6AN7			143
144	QV05-25		5B/250A		807	124	QE06-50	144
					5933			
145	EF81				6BH5			145
146	EF82		7D10		6CH6	2127	EL821	146
					6132		EL822	
147	EF89F				6DG7			147
148	EF190				6CB6	3995		148
					6CF6			
149	EL34	12E13	7D11	KT88	6550	1741		149
					6CA7			
150	EL80				6M5			150
151	EL85			N155	6BN5	3526		151
152	EL180				12BY7A			152
153	EM85				6DU6			153
154	EY81F				6V3A			154
155	E90Z				6063			155
156	EC95				6ER5			156
157	YY88				22AQ3			157
158	ECC230			A1834	6080	2984		158
					6AS7			
159	ECH21			X143				159
160	ECH35	6C31		X147	6K8	1347	ECH33	160
				X61M		1581		
				X65				
161	ECH42	6C9		X150	7J7	3888	ECH113	161
		6C10			6CU7			
162	EF22				7G7	303		162
					7T7			
					7L7			
163	EF39		9D4	W147		1053		163
164	EF41	6F15		W150	6CJ5	3886		164
		6F16						

Commercial Valve Equivalents (Contd.)

Line No.	Mullard and European	Ediswan Mazda	Brimar	G.E.C.	U.S.A.	C.V.	European	Line No.
165	EF42	6F13		Z150		3887		165
166	EF70				6487	467		156
167	EF71				5899	475	EF731	167
					5900			
168	EF72				5840	465	EF732	168
					5901			
169	EF73				6488	466		169
170	EBC33			DH147				170
171	E81CC			B152	12AT7	4024		171
	ECC801S			B309	6201	455		
	ECC81				6060			
172	ECC82			B329	6189	491	ECC802S	172
					6067	4002	E82CC	
173	ECC83	6L13		B339	12AU7			
					6057	492	E283CC	173
					12AX7		ECC803	
174	ECC84	6L16		B319	12DT7			
175	ECC85	6L12		B719	6CW7	5281		174
176	ECC86				6AQ8			175
					6463		CC86E	176
					6GM8			
177	ECC88				6DJ8	5358		177
178	ECC91				6J6	858		178
179	ECC186				7316			179
180	ECC189				6ES8	5331		180
181	E90CC				5920	5214	ECC960	181
182	E1T				6370	5106		182
183	ECF80	6C16			6BL8	5215		183
184	ECF86				6HG8			184
185	ECF804		18D3					185
186	ECH81	6C12	20D4	X719	6AJ8	2128		186
187	ECH83				6DS8			187
188	ECL80			LN152	6AB8			188
189	ECL82	6PL12			6BM8			189
190	ECL84				6DQ8			190
					6DX8			
191	ECL85				6GV8			191
192	ECL86				6GV8			192
193	EE80	6F28			6VW8			193
194	EF80		8D6	Z152	6BW7	1376		194
				Z719	6BX6			
195	EF85	6F19		W719	6BY7	1375		195
		6F26						
196	EF86	6F22	8D8	Z729	6CF8	2901	EF806S	196
					6267			
					6BK8			
197	EF89				6DA6	5156		197
198	EF91	6F12	8D3	Z77	6024	138		198
		6F11	5A/160H		6AM6			
			5A/160K		6064			
199	EF92	6F21	9D6	W77	6CQ6	131		199
					6065			
200	EF93			W727	6BA6	454		200
201	ECF82				6U8	5065		201
202	EF94				6136	2524		202
					6AU6			
203	EF96				6AG5	848		203
					6BC5			
204	EF97				6ES6			204
205	EF98				6ET6			205
206	EF183	6F29			6EH7	5831		206
207	EF184	6F30			6EJ7	5810		207
208	EF811	6F25						208
209	EBC80				6BD7			209
210	EF812	6F23		Z749	6EL7			210
211	EF814	6F24						211
212	EF861		5A/170K		6688	3998	E180F	212
213	E95F				6AK5	4010		213
	EF95				5654	850		
	EF905				5591			
					6096			

Commercial Valve Equivalents (Contd.)

Line No.	Mullard and European	Ediswan Mazda	Brimar	G.E.C.	U.S.A.	C.V.	European	Line No.
214	EH90				6CS6			214
215	EK90			X77 X727	5750 6BE6	453		215
216	EL81				6DR6 6CJ6	2721	EL820	216
217	EL82				6DY5			217
218	EL83				6CK6	2726	EL803/S	218
219	EL84	6P15		N709	7320 6BQ5	2975	E84L	219
220	EL86				6CW5	5094		220
221	EL90			N727	6005	1862		221
222	EL91	6P17	7D9	N144 N77	6AQ5 6AM5	136		222
223	EL95				6DL5			223
224	EL136				6FV5			224
225	EL500				6GB5			225
226	E81L EL861				6686			226
227	EM80				6BR5	1352		227
228	EM81				6DA5	5055		228
229	EM84 EM840				6FG6	5434		229
230	EQ80				6BE7			230
231	EY51		R12	U151 U43	6X2	426		231
232	EY80				6U3			232
233	EY81				6R3	5905		233
234	EY82				6N3			234
235	EY84		R18		6374 6443	2235		235
236	EY86				6S2	2966		236
237	EY87				6S2A			237
238	EY88				6AL3			238
239	EZ80				6V4	1535		239
240	EZ81	UU12		U709	6BW4 6CA4	5072		240
241	EZ90			U78	6X4	493		241
242	EF50			Z90		1091	EF53	242
243	EM87				6HU6			243
244	ECC804	6/30L2		B729	6GA8			244
245	E181CC				7118			245
246	EF74				6391	472 476		246
247	EL22			N148 KT81	7C5 7B5	885		247
248	EL33	6P25		KT61 N147	6M6 6AG6	2938 1438		248
249	EL36				6CM5	2940		249
250	EL37			KT66 N66	6L6 6CN5	586 862	EL39 EL35	250
251	EL38				6CN6	450		251
252	EL41			N150	6CK5	3889		252
253	EL42			N151		3890		253
254	EZ35			U70 U147	6X5	574		254
255	EZ40	UU9		U150 U718	6BT4	3891		255
256	UM34				12CD7			256
257	EN70				5643	474		257
258	EN91		20A3		5727 2D21	797	E91N	258
259	EN92				5696	3512		259
260	EN93				6D4	1949		260
261	EY70				5641			261
262	EZ91				6AV4			262
263	EM35	6M2		Y61 Y63 Y64	6G5 6U5	504		263
264	EM34	6M1			6CD7	394		264
265	EL71				5640 5902	4029		265

Commercial Valve Equivalents (Contd.)

Line No.	Mullard and European	Ediswan Mazda	Brimar	G.E.C.	U.S.A.	C.V.	European	Line No.
266	EF734				6205	3929		266
267	EF730				5636	3928		267
268	ECC70				6021	3986		268
269	EA50	6D1		D61	2B35	1092		269
270	EA76				6489	469		270
271	EAF42			WD150	6CT7	3883		271
272	EBC41	6LD3		DH718	6CV7	3882		272
				DH150				
				ZA2	954	1095		273
273					6FC7			274
274	ECC89				8108			275
275	EC157				6778	468	EC71	276
276	EC70				6K4	3930		
					5718			
277	85A2			QS83/3	OG3	449		277
278				HA2	955	1059		278
279				DL63	6R7	2912		279
280	KF35				1E5	766		280
281	E83CC				6681			281
282	EBF32				6B8	1894		282
283	EY89				6AV3			283
284	GZ30				5Z4			284
285	GZ32				5AQ4	1864		285
					5V4G			
286	GZ34			U52	5T4	1377		286
					5AR4			
287	UY41	U404		UI18	31A3			287
				UI45				
				UI42				
288	HABC80				19T8			288
289	HBC90				12AT6			289
290	HBC91				12AV6			290
					12BK6			
291	HCH81				12AJ8			291
292	HF93				12BA6	1928		292
293	HF94				12AU6	1961		293
294	HK90				12BE6			294
295	HL90				19AQ5			295
296	HL92				50C5	1959		296
297	HL94				30A5			297
298	HY90				35W4			298
299	HZ90				12Z3	927		299
300		30P12		N369	12FB5			300
301	GZ31				5U4	575		301
302	PL36				25E5			302
303	PY31			U31	25Z4			303
					25Y4			
304	PZ30		R14					304
305	YC95				3ER5			305
306			8D5		6059	4006		306
					6BR7	2135		
307			13D3		6158	2212		307
308	KL35				1F5	768		308
309				DH63	6B6	1887		309
					6Q7			
310			13D2	B36	12SX7	925		310
					12SN7			
311				L63	6C5	582		311
					6J5			
312			8D7		6BS7	5086		312
313				H63	6F5	1909		313
314				X73M	6D8	1902		314
315				DH149	7C6	887		315
316				W143	7A7	877		316
				W148	7H7	895		
				W81				
317		U37	R16		1T2			317
318				N78	6BJ5			318
319			20D3		12AH8			319
320				X79	6AE8	5115		320
321			R52	U50	5AZ4	1268		321
					5Y3			
322			13D1		25SN7	423		322

Commercial Valve Equivalents (Contd.)

Line No.	Mullard and European	Ediswan Mazda	Brimar	G.E.C.	U.S.A.	C.V.	European	Line No.
323	DL72				CK506AX	387		323
324				X81/M X148 DL145	7S7			324
325		I0LD11						325
326	MW36-24				14KP4A			326
327		CME1402		7205A				327
328		CME1703		7405A				328
329		CME1705		7406A				329
330		CME2101		7503A				330
331		CRM212	C2ITM	7502A				331
332		CRM144	C14FM	7204A				332
333		CRM172		7404A				333
334	PY83	U251		U329				334
335		I0F9		W145				335
336	MW22-3	CRM92	C9A					336
		CRM92A						
		CME2307	C23AKT					
337	A59-14W							337
338	EB34			D63	6H6	1930		338
339		U25		U47	2L2			339
340		U26	R20	U49	2J2			340
341	AW47-10							341
342	AW36-20				14ABP4A			342
343	AW36-21				14ABP4			343
344	PE81	30F27						344
345	PCF805	30C18						345
346	PF86				4CF8			346
347	PABC80				9AK8			347
348	PC86				4CM4			348
349	PC88				4DL4			349
350	PC92				3AB4			350
351	PC93				3AT4A			351
352	PC97				4FY5			352
353	PCC84	30L1		B319	7AN7	5192		353
354	PCC85				9AQ8			354
355	PCC88				7DJ8			355
356	PCC89				7FC7			356
357	PCC189				7ES8			357
358	PCC805	30L15		B349	7EK7			358
359	PCC806	30L17						359
360	PCE80	30FL13						360
361	PCE82	30FL12						361
362	PCE800	30FL1		LN339	9GB8			362
363	PCF80	30C1	8A8	LZ329 LZ319	9A8			363
364	PCF82				9U8			364
365	PCF86				7HG8 8HG8			365
366	PCF87	30C17						366
367	PCF800	30C15		LZ339	9EN7			367
368	PCL82	30PL12			16A8			368
369	PCL83			LN309		5144		369
370	PCL84				15DQ8			370
371	PCL85				18GV8			371
372	PCL86				14GW8			372
373	PCL88	30PL14		LN329				373
374	PCL800	30PL13			16GK8			374
375	PL81			N152 N359 N339	21A6	5077	PL820	375
376	PL82	30P16		N154 N329	16A5			376
377	PL83			N153 N309	15A6			377
378	PL84	30P18		N379	15CW5			378
379	PL302	30P19		N389				379
380	PL500				28GB5			380
381	PY32	U291						381
382	PY80			U309	19X3			382
383	PY81			U152				383
384	PY82	U192		U153 U154 U319	17Z3 19Y3			384

Commercial Valve Equivalents (Contd.)

Line No.	Mullard and European	Ediswan Mazda	Brimar	G.E.C.	U.S.A.	C.V.	European	Line No.
385	PY88				30AE3			385
386	PY801	UI93		U349				386
387	PM84				9FG6			387
388	PC95				3ER6			388
389	UABC80	I0LDI2		DH109	28AK8			389
390	UBC81	I0LDI3		DH119	15BD7A			390
391	UBF80				17C8			391
392	UBF89	I0FDI2		WDI19	19DC8			392
					19FL8			
393	UC88				12DL4			393
394	UCC85	I0LI4		B109	28AQ8			394
395	UCC89				22FC7			395
396	UCC189				21ES8			396
397	UCH81	I0CI4		X119	19D8			397
					19AJ8			
398	UCL82	I0PLI2		LN119	48A8			398
					50BM8			
399	UL84	I0PI8		N119	48BQ5			399
					45B5			
400	UM80			Y119	19BR5			400
401	UY82				55N3			401
402	UY85	U381		U119	38A3			402
403	UY89				31AV3			403
404	UM35	I0M2						404
405		U191		U339	19CS4		UAA91	405
406	UB91	I0D2			12AL5		HAA91	406
407	UC92				9AB4			407
408	UCC84				21CW7			408
409	UCC88				21DJ8			409
410	UCF80				27BL8			410
411	UCL84				45DQ8			411
					45DX8			
412	UF80				19BX6			412
					19BW7			
413	UF85				19BY7			413
414	UF89				12DA6			414
415	UM81				19DA5			415
416	UM84				13FG6			416
417	UQ80				12BE7			417
418			R17		6157			418
419				Z319	6351			419
420	UC95				10ER5			420
421	UF183				19EH7			421
422	UF184				19EJ7			422
423	UAF42			WDI42	12S7			423
424	UBC41	I0LD3		DH142	14L7			424
				DH118				
425		CRM121B CRM121						425
			C12A					
426	UCH42			X142	14K7			426
427	UF41	I0F9		W142	12AC5			427
				W118				
428	UF42	I0F3		Z142				428
429	UL41	I0P14		N142	45A5			429
430	MW18-2	CRM71						430
431	XAA91				3AL5			431
432	XC95				2ER5			432
433	XCC82				7AU7			433
434	XCC189				4ES8			434
435	XCL82				8BM8			435
436	XF94				3AU6			436
437	XL36				13CM5			437
438	XL86				8CW5			438
439	XY88				16AQ3			439
440	XC88				2DL4			440
441	XCC89				4FC7			441
442	XCF80				4BL8			442
443	XCH81				3AJ8			443
444	XCL84				8DX8			444
445	XF80				3BX6			445
446	XF85				3BY7			446

Commercial Valve Equivalents (Contd.)

Line No.	Mullard and European	Ediswan Mazda	Brimar	G.E.C.	U.S.A.	C.V.	European	Line No.
447	XF86				2HR8			447
448	XF183				3EH7			448
449	XF184				3EJ7			449
450	XL84				8BQ5			450
451	XCL86				8GW8			451
452	XCF82				5U8			452
453	XL136				17FV5			453
454	XL500				14GB5			454
455		10CI		XI45 XI18 ZI45				455
456		10FI						456
457	83A1				7980			457
458	150C3				OD3	216		458
459	150C2				0A2	1832		459
460				KT32	25L6 6046 7561 OB2 3DL4 5FC7 5ES8 10BM8 10DX8 10GW8 10BQ5 10CW5 4EH7 4EJ7	552		460
461	108C1					1833		461
462	YC88							462
463	YCC89							463
464	YCC189							464
465	YCL82							465
466	YCL84							466
467	YCL86							467
468	YL84							468
469	YL86							469
470	YF183							470
471	YF184							471
472	EF37A		5A/157D			358		472
473	75B1			QS75/20 QS95/10 QS150/15 QS92/10V		284		473
474	150A2	V987B				286		474
475	150B3					287		475
476	7475					188		476
477	DF70				CK505AX	443		447
478	DL71					386		478
479			2T/270K R10 C24KM		CK502AX 6305	385		479
480	MW61-80							480

C.V. TYPES WITH COMMERCIAL EQUIVALENTS

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
CV24	HL41	CV185	PM202	CV343	6F32	CV434	QS75/60
CV31	U20	CV187	U19	CV346	EZ22	CV437	KT67
CV51	Y65	CV188	7475	CV347	EBC21	CV443	DF70
CV65	Pen25	CV207	AC/P4	CV358	EF37A	CV449	85A2
CV118	SP61	CV216	150C3	CV366	6AG7	CV450	EL38
CV124	QV05-25	CV235	U19	CV375	EA50	CV452	EB90
CV131	EF92	CV266	XO/HG	CV378	GZ33	CV453	EK90
CV133	6C4	CV277	19G3	CV380	EF54	CV454	EF93
CV135	EY91	CV278	B65	CV385	DL71	CV455	ECC81
CV136	EL91	CV281	X61M	CV386	DF70	CV465	EF72
CV137	EAC91	CV283	6AL5	CV387	DL72	CV466	EF73
CV138	EF91	CV284	75B1	CV394	EM34	CV467	EF70
CV140	EB91	CV286	150A2	CV399	MH4	CV468	EC70
CV170	12SF7	CV287	150B3	CV416	6F17	CV469	EA76
CV171	W21	CV302	ECH22	CV417	EC91	CV471	EL70
CV173	EF55	CV303	EF22	CV423	25SN7	CV472	EF74
CV175	XSG1.5	CV304	EL22	CV426	EY51	CV473	EY70
CV176	XPI.5	CV327	EF52	CV430	29C1	CV474	EN71
CV181	ECC31	CV329	6F33	CV431	85A1	CV475	EF71

C.V. Types with Commercial Equivalents (Contd.)

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
CV476	EF74	CV608	41	CV782	DK91	CV1020	220P
CV477	EF731	CV609	42	CV783	DL91	CV1021	210LF
CV484	3S4	CV610	45	CV784	DAF91	CV1022	220PA
CV491	ECC82	CV611	56	CV785	DF91	CV1023	230XP
CV492	ECC83	CV612	57	CV787	2A7	CV1027	L210
CV493	EZ90	CV613	58	CV797	EN91	CV1028	220VSG
CV500	6T7G	CV614	75	CV807	DL93	CV1032	220B
CV501	EBF32	CV615	76	CV808	DCC90	CV1035	QP21
CV504	6U5	CV616	77	CV813	959	CV1036	220PA
CV509	6V6G	CV617	80	CV815	3D6	CV1037	MH4
CV510	6V6	CV618	83	CV818	DL95	CV1038	MHL4
CV511	6V6GT	CV619	6Z4	CV819	DL33	CV1039	MU14
CV512	6W7G	CV649	956	CV820	DL92	CV1040	PX25
CV515	6Y6G	CV650	958	CV841	5U4GT	CV1041	PM12M
CV517	OZ4A	CV652	1603	CV842	5W4G	CV1042	210LF
CV525	12A6	CV653	1611	CV843	6AB5	CV1043	210PG
CV526	12A6GT	CV654	1612	CV844	6AC5G	CV1044	210DDT
CV529	12AH7GT	CV655	1613	CV845	6AC5GT	CV1046	PT25H
CV531	12C8	CV656	1616	CV846	6AC7	CV1048	215SG
CV534	12J5	CV657	1620	CV847	6AF6G	CV1049	210SPT
CV535	12J5GT	CV658	1622	CV848	6AG5	CV1050	HL2K
CV537	12SA7	CV659	1625	CV849	6AC7	CV1051	Pen220A
CV538	12SA7GT	CV660	1852	CV850	EF95	CV1052	EL32
CV540	12SC7	CV661	1853	CV851	6B4G	CV1053	EF39
CV543	12SK7	CV663	8025	CV852	6C4	CV1054	EB34
CV544	12SK7GT	CV664	9002	CV854	6C7	CV1055	EBC33
CV546	12SQ7	CV665	9003	CV856	6G8G	CV1056	EF36
CV547	12SQ7GT	CV666	9004	CV858	6J6	CV1057	EK32
CV548	LP2	CV667	9005	CV859	6J8G	CV1059	955
CV549	25A6	CV685	VR150-30	CV860	6K5G	CV1064	U12/14
CV550	25A6GT	CV686	0C3	CV862	6L5G	CV1065	SP61
CV551	25L6G	CV692	0Z4	CV864	6P7G	CV1066	P61
CV552	25L6	CV694	12SG7	CV865	6SD7GT	CV1067	6J5G
CV553	25L6GT	CV697	12SJ7	CV866	6SJ7Y	CV1068	STV280/40
CV554	D63	CV698	12SJ7GT	CV867	6SR7	CV1069	STV280/80
CV555	25Z5	CV700	12SR7	CV876	7A6	CV1070	7475
CV556	QP25	CV703	12K8	CV877	7A7	CV1071	U52
CV557	D42	CV705	1D5GP	CV878	7A8	CV1073	6F5G
CV558	25Z6	CV706	6U7G	CV879	7B4	CV1074	KTZ63
CV559	25Z6GT	CV711	32	CV880	7B5	CV1075	KT66
CV561	35L6	CV712	38	CV885	7C5	CV1076	DA41
CV562	35L6GT	CV715	6F5GT	CV887	7C6	CV1077	EM31
CV563	DA30	CV717	5R4GY	CV889	7D8	CV1078	DI
CV564	35Z3	CV723	1619	CV891	7E6	CV1079	KT8
CV565	35Z3GT	CV728	1P5GT	CV892	7E7	CV1082	X24
CV567	35Z5	CV729	5V4G	CV893	7F7	CV1083	VP21
CV568	35Z5GT	CV730	6A3	CV894	7G7	CV1091	EF50
CV569	ECC35	CV731	6F6GT	CV895	7H7	CV1092	EA50
CV571	50L6GT	CV735	845	CV896	7K7	CV1095	954
CV572	6X5G	CV747	6AJ7	CV897	7J7	CV1099	X66
CV573	6X5	CV753	DA90	CV898	7N7	CV1100	KTW62
CV574	EZ35	CV755	1A5G	CV899	7Q7	CV1101	MHLD6
CV575	U52	CV756	1A5GT	CV900	7R7	CV1102	BL63
CV578	X63	CV760	1B7GT	CV901	7Y4	CV1103	Y63
CV579	6A8	CV764	1D5	CV902	7W7	CV1106	9D2
CV580	6ABGT	CV765	1D7G	CV908	12A5	CV1107	15D2
CV581	6C5G	CV766	1E5GP	CV909	12A7	CV1108	8D2
CV582	6C5	CV767	1F4	CV910	12A8GT	CV1109	4D1
CV583	6C5GT	CV768	1F5G	CV911	12B8GT	CV1111	U27
CV585	6C6	CV769	1F6	CV916	12H6	CV1113	U17
CV586	EL37	CV770	1F7GV	CV917	12J7GT	CV1116	6F32
CV587	6Q7G	CV771	1G5G	CV918	12K7GT	CV1117	41MLT
CV588	6Q7	CV772	1G6G	CV919	12SF5	CV1118	KT2
CV589	6Q7GT	CV773	1G6GT	CV920	12SF5GT	CV1119	DDL4
CV590	6S17G	CV774	1H4G	CV921	12SF7	CV1120	SU2150A
CV591	6SJ7	CV775	1LA6	CV922	12SH7	CV1121	T41
CV592	6SJ7GT	CV776	1LB4	CV923	12SJ7GT	CV1122	41MXP
CV593	GZ32	CV777	1LC5	CV924	12SL7GT	CV1123	EF8
CV594	6SH7	CV778	1LC6	CV925	12SN7GT	CV1124	MS/PEN
CV595	6SH7GT	CV779	1LD5	CV1000	4D1	CV1125	MS/PENB
CV599	1851	CV780	1LH4	CV1018	Z21	CV1126	4SH
CV606	37	CV781	1LN5	CV1019	PM2	CV1127	Pen46

C.V. Types with Commercial Equivalents (Contd.)

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
CVI129	MS/PENT	CVI325	42MPT	CVI576	KT44	CVI772	47
CVI130	HL23	CVI326	AC4/PEN	CVI577	KT44	CVI773	82
CVI133	SU41	CVI327	Pen1340	CVI578	EF50	CVI775	36
CVI134	HVR2	CVI328	7D83	CVI579	954	CVI776	6D7
CVI136	EF54	CVI329	APP4G	CVI581	ECH35	CVI777	6C7
CVI137	EC52	CVI330	TSP4	CVI582	SI30	CVI784	6AK7
CVI151	PM3	CVI331	VP23	CVI584	4IMTL	CVI790	7Z4
CVI152	PM4DX	CVI332	VP21	CVI586	HL23	CVI794	959
CVI154	PM254	CVI333	2201PT	CVI598	9D2	CVI796	U12/14
CVI155	PN254	CVI334	KT24	CVI633	3V4	CVI798	2051
CVI159	PM14	CVI335	SP41	CVI634	XB2	CVI800	1A7G
CVI160	104V	CVI336	SP42	CVI652	P220A	CVI802	DK32
CVI161	104V	CVI337	116Pen	CVI654	PM2DX	CVI803	DL35
CVI162	LP2	CVI338	220VPT	CVI662	P215	CVI804	EAC91
CVI163	PM2BA	CVI340	KT44	CVI670	4D1	CVI805	DL35
CVI164	AC/SG	CVI341	MSP4	CVI672	Pen36C	CVI806	1D5GT
CVI165	VMS4	CVI342	QP25	CVI673	HL2	CVI811	1D8GT
CVI166	LP2	CVI343	KTZ73	CVI674	MSPen	CVI812	1E7GT
CVI167	PM24A	CVI347	ECH35	CVI675	N43	CVI816	6Y3G
CVI168	PX4	CVI352	EM80	CVI677	SV4B	CVI817	1G4GT/G
CVI169	VMP4G	CVI356	U22	CVI678	MH41	CVI818	1H5G
CVI170	D41	CVI359	ME41	CVI679	DA30	CVI819	6P5GT
CVI171	H41	CVI375	EF85	CVI680	PM202	CVI820	DAC32
CVI172	VP4B	CVI376	EF80	CVI681	TSP4	CVI821	1N5G
CVI174	Pen4VA	CVI377	GZ34	CVI682	PENA4	CVI823	DF33
CVI175	ZAI	CVI402	CY31	CVI683	MP/PEN	CVI824	1Q5G
CVI179	ML4	CVI403	DD41	CVI684	APP4C	CVI825	KT45
CVI181	KT41	CVI404	EF36	CVI685	APP4C	CVI826	1Q5GT
CVI182	MHD4	CVI407	Pen45	CVI690	9A1	CVI830	U41
CVI183	W42	CVI408	P41	CVI691	DDL4	CVI831	2A3
CVI186	KT63	CVI409	SP2	CVI692	AC/P	CVI832	150C2
CVI187	D41	CVI410	TH2	CVI695	DDL13	CVI833	108C1
CVI188	N43	CVI411	TH41	CVI696	B21	CVI834	2A5
CVI189	AC6Pen	CVI412	TV4	CVI697	X41	CVI837	2B7
CVI190	ACIP4	CVI413	UU6	CVI699	SP41	CVI839	6F13
CVI191	KTZ41	CVI414	VP41	CVI700	SP41	CVI843	2Y2
CVI192	Z62	CVI418	10D1	CVI701	XL0	CVI846	5T4
CVI193	X65	CVI419	11D3	CVI702	XP	CVI848	20A2
CVI194	X41	CVI424	20A1	CVI703	XW	CVI849	5W4
CVI195	KTW63	CVI425	7D5	CVI704	57	CVI850	6L19
CVI196	AC5/PENDD	CVI426	EK2	CVI705	58	CVI851	5X4G
CVI197	EC53	CVI427	EF9	CVI706	2B7	CVI852	5X4
CVI208	PM256	CVI428	EBC3	CVI707	2A5	CVI853	6P25
CVI237	PM24D	CVI429	EL2	CVI708	80	CVI854	5Y3G
CVI238	PM24D	CVI430	AC/SP3RH	CVI709	6D6	CVI855	UU9
CVI246	P2	CVI433	EC31	CVI710	6C6	CVI856	5Y3GT
CVI264	U18/20	CVI434	EM4	CVI711	6B7	CVI857	5Y4G
CVI268	U50	CVI437	KT44	CVI712	42	CVI861	5Z3
CVI279	MU2	CVI438	KT61	CVI713	EF8	CVI862	EL90
CVI280	X64	CVI443	U10	CVI714	EF9	CVI863	5Z4G
CVI282	AC/S2Pen	CVI444	42SPT	CVI715	EBC3	CVI864	5Z4
CVI285	ECC31	CVI454	225DU	CVI718	AC/TP	CVI865	EC81
CVI286	EL35	CVI456	Pen383	CVI719	U22	CVI867	6A6
CVI287	KT32	CVI457	VP133	CVI720	XLI.5	CVI870	6A7
CVI290	SU2150A	CVI458	41MP	CVI721	XPI.5	CVI873	6AB7
CVI300	2D13C	CVI459	MU2	CVI727	SP210	CVI874	MS/PEN T
CVI301	D63	CVI460	X41	CVI732	ML4	CVI876	1B52
CVI302	D42	CVI461	U22	CVI741	EL34	CVI878	6AD7G
CVI303	PM1HF	CVI463	CBL31	CVI745	62BT	CVI882	6AG7
CVI304	LP2	CVI464	EF39	CVI751	34	CVI885	6B5
CVI306	HL23DD	CVI468	SP4	CVI752	35	CVI886	EC80
CVI307	210LF	CVI469	Z22	CVI753	35A5	CVI887	6B6G
CVI308	TDD2A	CVI502	KT32	CVI754	35TG	CVI890	6B7G
CVI312	220R	CVI503	KT33C	CVI755	1626	CVI891	6B7
CVI313	220LF	CVI505	MH41	CVI756	1629	CVI893	6B8G
CVI318	VS24	CVI508	U19	CVI757	9001	CVI894	6B8
CVI319	VS2	CVI535	EZ80	CVI758	DF92	CVI896	6C8G
CVI320	SP2	CVI565	230XP	CVI762	6AK6	CVI899	6L18
CVI321	9D2	CVI569	R3	CVI763	614	CVI900	6D6
CVI322	SP210	CVI570	EK32	CVI769	2A6	CVI901	6F11
CVI323	VP2	CVI574	SP41	CVI770	7A4	CVI902	6D8G
CVI324	SP4	CVI575	U52	CVI771	39	CVI906	6E5

C.V. Types with Commercial Equivalents (Contd.)

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
CV1908	6F5G	CV2105	DL70	CV2546	81	CV2500	HL210
CV1909	6F5	CV2106	DL66	CV2547	83V	CV3501	HL610
CV1910	6F5GT	CV2107	DF66	CV2548	84	CV3502	HL1320
CV1911	6F6G	CV2115	U41	CV2549	85	CV3503	HLDD1320
CV1912	6F6	CV2127	EL821	CV2556	117L7GT	CV3508	6201
CV1915	6F7	CV2135	6BR7	CV2557	117N7GT	CV3519	KT30
CV1917	6F8G	CV2136	6BW6	CV2558	117Z6GT	CV3520	KT31
CV1919	6F14	CV2172	DC80	CV2565	2050	CV3526	EL85
CV1920	6LD20	CV2217	6K25	CV2698	5896	CV3527	KTW73M
CV1921	U24	CV2218	R17	CV2700	957	CV3529	KTZ41
CV1926	6G6G	CV2225	150B2	CV2701	958A	CV3530	KTZ73
CV1928	12BA6	CV2235	EY84	CV2721	EL81	CV3531	L2
CV1929	D63	CV2237	IAD4	CV2726	EL83	CV3532	L21
CV1930	6H6	CV2238	DL620	CV2729	E80F	CV3533	L22DD
CV1931	6H6GT	CV2239	XFR3	CV2742	DF92	CV3534	L30
CV1932	L63	CV2240	DL68	CV2747	6U5G	CV3538	L610
CV1933	6J5	CV2241	DY50	CV2748	5Z4GT	CV3546	MHD4
CV1934	6J5GT	CV2243	6F14	CV2769	9006	CV3547	MHL4
CV1935	6J7G	CV2259	DL98	CV2795	DF92	CV3552	MPT4K
CV1936	6J7	CV2260	DF64	CV2796	6L6WGB	CV3553	MS4B
CV1937	6J7GT	CV2275	DC70	CV2817	6L6GA	CV3554	MPT42
CV1938	6K6G	CV2276	Z319	CV2820	AC/SP1	CV3562	MSP41
CV1940	6K6GT	CV2288	DL66	CV2821	ECC31	CV3565	ME41
CV1941	6K7G	CV2289	U37	CV2823	AC/SP3	CV3571	MVSPen
CV1942	6K7	CV2299	DL73	CV2830	AC/TH1	CV3572	MVSPenB
CV1943	6K7GT	CV2300	DL93	CV2832	AC/VP2	CV3576	MX40
CV1944	6K8G	CV2331	DL64	CV2835	5R4WGY	CV3577	26A7GT
CV1945	6K8	CV2349	EN30	CV2842	6C4WA	CV3578	PM22D
CV1946	6K8GT	CV2360	5A6	CV2843	6J6W	CV3582	VP4B
CV1947	EL37	CV2361	DL69	CV2844	6X4W	CV3613	6AR6
CV1948	6L6	CV2370	DL92	CV2854	6AN5	CV3614	6BR6
CV1949	EN93	CV2371	DF61	CV2862	AZ31	CV3615	6BM6
CV1950	6L7G	CV2382	EL822	CV2864	B21	CV3616	6BN6
CV1951	6L7	CV2390	DL93	CV2865	B30	CV3618	6L6WGA
CV1953	6N6G	CV2394	DA42	CV2876	2D21W	CV3619	6SJ7WGT
CV1954	6N6	CV2432	6205	CV2877	6AK5W	CV3620	P220
CV1956	6N7G	CV2433	DF63	CV2882	6AL5W	CV3621	P410
CV1957	6N7	CV2492	E88CC	CV2883	6AQ5W	CV3622	P610
CV1958	6N7GT	CV2493	E88CC/01	CV2884	6AS6W	CV3623	PA40
CV1959	HL92	CV2500	35Z4GT	CV2888	EL31	CV3626	Pen4B
CV1960	6R6G	CV2501	40	CV2901	EF86	CV3627	6SN7WGT
CV1961	12AU6	CV2502	41FP	CV2912	DL63	CV3630	Pen44
CV1962	6R7G	CV2503	41MH	CV2926	EBL31	CV3631	Pen45DD
CV1963	6R7	CV2504	41MHL	CV2927	EC50	CV3633	Pen231
CV1964	6R7GT	CV2505	41MPG	CV2930	ECH33	CV3634	Pen428
CV1966	6SA7	CV2506	41MPT	CV2937	6AQ6	CV3635	Pen1340
CV1967	6SA7GT/G	CV2507	IU4	CV2938	EL33	CV3636	Pen1346
CV1969	6SC7	CV2508	41STH	CV2939	6F4	CV3638	PenA4
CV1970	6SC7GT	CV2509	41FP	CV2940	EL36	CV3641	PMIHL
CV1972	6SF5	CV2511	420T	CV2941	EL50	CV3642	PMILF
CV1973	6SF5GT	CV2512	420TDD	CV2942	EM1	CV3643	PM2A
CV1974	6S7G	CV2513	42PAY	CV2951	FC2A	CV3645	PM2DX
CV1975	6S7	CV2514	43	CV2955	FC4	CV3647	PM22A
CV1977	UL41	CV2517	2E30	CV2956	FC13C	CV3648	PM24E
CV1978	6SG7	CV2521	6AH6	CV2966	EY86	CV3649	PM22
CV1979	61BT	CV2522	6AS6	CV2968	7F8	CV3650	12AY7
CV1980	185BT	CV2523	6AS7G	CV2975	EL84	CV3651	12SH7GT
CV1981	6SK7	CV2524	EF94	CV2977	H2	CV3656	PT425
CV1982	6SK7GT	CV2526	EBC91	CV2979	H30	CV3666	12SW7
CV1985	6SL7GT	CV2527	6BA7	CV2980	DM70	CV3668	21SY7
CV1988	6SN7GT	CV2529	451U	CV2981	H410	CV3675	9004
CV1989	SD6	CV2530	45Z5GT	CV2982	H610	CV3691	S23
CV1990	6SQ7	CV2531	46	CV2983	DL94	CV3692	S23
CV1991	6SQ7GT	CV2532	49	CV2984	6080	CV3694	S130A
CV1993	6SS7	CV2533	50	CV2985	HD24	CV3695	S215
CV1995	6ST7GT	CV2434	50L6G	CV2990	6136	CV3697	12SX7GT
CV1996	6ST7	CV2535	53	CV2994	HL23	CV3698	S610
CV1999	IV	CV2536	53A	CV2995	HL23DD	CV3699	5693
CV2101	DF72	CV2537	55	CV2996	HL41DD	CV3702	SG215
CV2102	DL75	CV2538	59	CV2997	HL63	CV3703	SP4B
CV2103	DF73	CV2544	78	CV3998	HL133	CV3704	SP13C
CV2104	DAF70	CV2545	79	CV2999	HL133DD	CV3705	5691

C.V. Types with Commercial Equivalents (Contd.)

C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent	C.V. No.	Commercial Equivalent
CV3707	6AL7GT	CV3891	EZ40	CV4037	F/5750	CV5172	DK92
CV3709	STV150/20	CV3892	AZ41	CV4039	6062	CV5173	90C1
CV3711	N78	CV3894	6BF7	CV4040	S6F17	CV5181	5R4
CV3712	STV280/80A	CV3895	5702	CV4041	S6F17F	CV5182	6AN5
CV3723	T41	CV3896	5784	CV4042	S19G6F	CV5183	6C4
CV3726	TDD2A	CV3898	5829	CV4043	6061	CV5184	6CD6GA
CV3727	TDD4	CV3899	5932	CV4044	6443	CV5185	6X4WA
CV3734	6X5WGT	CV3900	5963	CV4045	F/6061	CV5192	PCC84
CV3743	U5	CV3908	6BH6	CV4048	M8098	CV5214	E90CC
CV3744	U6	CV3909	6BJ6	CV4049	F/5726	CV5215	ECF80
CV3746	U14	CV3912	IU5	CV4050	M8180	CV5220	KT88
CV3747	U15	CV3919	U82	CV4051	F/6158	CV5231	E188CC
CV3748	2X2	CV3924	6AC7W	CV4052	QS1202	CV5233	EL32
CV3750	U22	CV3927	I2K8GT	CV4053	QS1203	CV5244	MB3-I
CV3751	U21	CV3928	5636	CV4054	M8142	CV5277	ET51
CV3752	U30	CV3929	5840	CV4055	6132	CV5281	ECC84
CV3753	U31	CV3930	5718	CV4056	F/6132	CV5302	DH7-91
CV3754	U50	CV3931	5906	CV4058	M8080	CV5304	6463
CV3759	UU4	CV3932	5977	CV4059	M8097	CV5306	6L6GTY
CV3760	UU5	CV3933	5783	CV4060	S11E12	CV5311	M8248
CV3761	UU7	CV3935	14A7	CV4061	U37	CV5331	ECC189
CV3785	VMP4G	CV3936	14S7	CV4063	6516	CV5766	E182CC
CV3786	VMP4G	CV3937	14R7	CV4064	S6F33	CV5808	E55L
CV3787	VP2	CV3938	I2CS7GT	CV4066	5783WA	CV5809	E810F
CV3788	VP4	CV3939	6BM6A	CV4067	F/7001	CV5810	EF184
CV3789	5842	CV3943	5852	CV4068	6158	CV5830	EL360
CV3790	VP13C	CV3960	5783WA	CV4069	F/6158	CV5831	EF183
CV3791	VP21	CV3961	6111	CV4070	M8099	CV5905	EY81
CV3792	VP23	CV3978	6AG7Y	CV4076	M8179	CV6004	XC12
CV3793	VP24	CV3979	OD3W	CV4080	75C1		
CV3794	VP210	CV3980	I2SR7GT	CV4085	M8195		
CV3795	VP215	CV3983	I2S7WGT	CV4086	EF86		
CV3796	VPI322	CV3985	6SL7WGT	CV4098	5725		
CV3798	OA3	CV3986	6021	CV4100	0A2WA		
CV3799	OB3	CV3988	6442	CV4101	OB2WA		
CV3804	W21	CV3989	6AN4	CV4104	M8163		
CV3805	W30K	CV3995	6CB6	CV5008	6080WA		
CV3806	W31	CV3996	U709	CV5009	6203		
CV3807	W31	CV3998	E180F	CV5029	6J4WA		
CV3810	WD30	CV4001	F/6063	CV5036	6AF4		
CV3811	WD30	CV4002	F/6064	CV5037	6BA6W		
CV3816	X21	CV4003	6067	CV5038	6BC4		
CV3817	X21MET	CV4004	6057	CV5039	6BL7		
CV3818	X22	CV4005	6063	CV5040	6BQ6G/GT		
CV3819	X24	CV4006	6059	CV5041	6CL6		
CV3820	X24MET	CV4007	5726	CV5042	I2BH7		
CV3821	X31	CV4008	5719	CV5052	6AU7		
CV3822	X31MET	CV4009	5749	CV5055	EM81		
CV3823	X41MET	CV4010	5654	CV5057	5702WA		
CV3824	X61	CV4011	5725	CV5058	5784WA		
CV3825	X63	CV4012	5750	CV5059	5829WA		
CV3826	X65	CV4013	5670	CV5060	Z759		
CV3827	I2C8GT	CV4014	6064	CV5065	6U8		
CV3828	X66	CV4015	6065	CV5067	6SH7L		
CV3830	XH1.5	CV4016	5814	CV5072	EZ81		
CV3835	Z21	CV4017	5751	CV5073	6AM4		
CV3836	Z21MET	CV4018	5727	CV5074	6AF4A		
CV3837	Z21	CV4019	6005	CV5077	PL81		
CV3838	Z62	CV4020	0A2WA	CV5080	EF37A		
CV3839	Z66	CV4022	6135	CV5081	61SPT		
CV3841	6F1	CV4023	6AU6WA	CV5085	27M2		
CV3875	KU54	CV4024	6060	CV5086	6BS7		
CV3881	EB41	CV4025	6058	CV5088	XC15		
CV3882	EBC41	CV4036	5R4VGA	CV5107	KD63		
CV3883	EAF42	CV4027	5Y3WGT	CV5110	EF39		
CV3884	ECC40	CV4028	0B2WA	CV5115	X79		
CV3885	EF40	CV4029	5902	CV5118	6L6		
CV3886	EF41	CV4031	6101	CV5126	6AJ4		
CV3887	EF42	CV4032	5814WA	CV5132	M8163		
CV3888	ECH42	CV4033	F/6060	CV5140	EA52		
CV3889	EL41	CV4034	F/6067	CV5144	PCL83		
CV3890	EL42	CV4035	F/6057	CV5156	EF89		

BRITISH ARMY VALVES WITH COMMERCIAL EQUIVALENTS

Services No.	Commercial Equivalent	Services No.	Commercial Equivalent	Services No.	Commercial Equivalent	Services No.	Commercial Equivalent
AD1	DLS10	ARDD5	EB34	ARP19	SP41	AT35	DET25
AR4	HL210	ARH1	X64	ARP20	SP42	AT37	ACT6
AR5	LP2	ARPI	KT2	ARP21	Z62	ATP10	4061A
AR6	LP2	ARP2	SP2	ARP22	116/Pen	ATP35	PVI-35
AR7	4D1	ARP3	9D2	ARP23	HP4101	ATP75	PT6
AR8	HL23DD	ARP4	SP210	ARP24	220VPT	ATP100	4069A
AR9	L21	ARP5	VP2	ARP25	KT41	ATS25	807
AR10	TDD2A	ARP6	SP4	ARP26	KT44	ATS25A	807
AR11	4019B	ARP7	42MPT	ARP33	MSP4	ATS70	4282B
AR12	4020A	ARP8	AC4/Pen	ARP34	EF39	AUI	U18
AR13	4022AR	ARP9	Pen1340	ARP35	EF50	AU8	U12-14
AR14	220RC	ARP9a	7D8	ARP36	SP61	AU3A	MU14
AR15	220LF	ARPI0	PenA4	ARP37	QP25	AU4	U17
AR16	220B	ARPI1	TSP4	ARP38	KTZ73	AU6	GU5
AR17	MH4	ARPI2	VP23	ARS6	S625	AU8	U22
AR20	4021B	ARPI3	VP21	ARS7	VS24	AW2	7475
AR21	EBC33	ARPI4	220PT	ARS8	PM12V	AW3	S130
ARD2	D1	ARPI5	KTW63	ARTH2	ECH35	AW4	STV280/40
ARD4	D42	ARPI6	6J7	ARTPI	TP22	AW5	ME41
ARDD1	10D1	ARPI7	6F6	ARTP2	TP25	AW6	EM31
ARDD3	6H6	ARPI8	KT24	AT20	MZ05-20		

BRITISH NAVY VALVES WITH COMMERCIAL EQUIVALENTS

Services No.	Commercial Equivalent	Services No.	Commercial Equivalent	Services No.	Commercial Equivalent	Service No.	Commercial Equivalent
NGT1	DPO	NR44	AC044	NR72	N43	NT18	DO60
NGT2	GTIC	NR45	VMP4G	NR73	ECC31	NT20	PM256
NGT4	GTIA	NR46	D41	NR74	AC6/Pen	NT36	DA100
NR15	PM3	NR47	PX25	NR75	2XAC/P4	NT37	4033A
NR15A	PM4DX	NR48	EBC33	NR76	KTZ41	NT38A	PZI-75
NR16	PM254	NR49	EF36	NR77	EL35	NT39	ACT6
NR16A	PM4DX	NR50	AT4	NR78	6C5	NT40	DET5
NR18	DEQ	NR53	KT42	NR79	Z62	NT58	DET12
NR22	PM14	NR54	AP4	NR81	6K7	NT62	PM24D
NR23	PM14	NR55	4D1	NR82	X65	NT65A	PZI-35
NR26	MHL4	NR56	DO30	NR83	6J7	NT82	PM202
NR27	ML4	NR57	ML4	NR84	X41	NU3	U12/14
NR27A	ML4	NR58	244V	NR85	6F6	NU5	RX3-120
NR28	PM2	NR59	KT41	NR86	KTW63	NU12	U18
NR31	MH4	NR60	H42	NR87	AC5/PenDD	NU13	U15
NR35	PD220A	NR61	W42	NR88	RL18	NU16	GU5
NR37	AC/SG	NR66	D41	NR94	AC/P4	NU17	MU14
NR38	VMS4	NR67	X64	NR95	KT32	NU18	U17
NR39	KT2	NR68	6Q7	NS1	STV280/80	NU20	5Y3
NR41	210VPT	NR69	EM35	NS3	202	NU31	MU2
NR42	LP2	NR70	HP4101	NS4	4713	NU33	SU2150A
NR43	PM24A	NR71	MS/Pen	NS5	304	NU34	HVR2

WAR-TIME CIVILIAN VALVES WITH COMMERCIAL EQUIVALENTS

BVA211 } IW4-350	BVA243 } EF39	BVA264 } EL33	BVA274 } ECH35
BVA214 } and	BVA246 } and	BVA265 } and	BVA275 } and
BVA215 } Equivalents	BVA247 } Equivalents	BVA266 } Equivalents	BVA276 } Equivalents
BVA216 }			

U.S.A. SERVICE TYPES WITH COMMERCIAL EQUIVALENTS

V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent	V.T. No.	Commercial Equivalent
1	WE203A	78	78	134	12A6	203	9003
2	WE205B	80	80	135	12J5GT	204	3C24
4B	211	83	83	135A	12J5	205	6ST7
4C	211SPEC	84	84/6Z4	136	1625	206A	5V4G
5	WE215A	86	6K7	137	1626	207	12AH7GT
6	212A	86A	6K7G	138	1629	208	7B8
7	WX12	86B	6K7GT	139	OD3/VR150	209	12SG7
8	UV204	87	6L7	141	WL531	210	1S4
17	860	87A	6L7G	143	805	211	6SG7
19	861	88	6R7	144	813	212	958
22	204A	88A	6R7G	145	5Z3	213A	6L5G
24	864	88B	6R7GT	146	IN5GT	214	12H6
25	10	89	89	147	1A7GT	215	6E5
25A	0Y-10SPEC	90	6H6	148	1D8GT	216	816
26	22	90A	6H6GT/G	149	3A8GT	217	811
27	30	91	6J7	150	6SA7	218	100TH
28	24A	91A	6J7GT	150A	6SA7GT	220	250TH
29	27	92	6Q7	151	6A8G	221	3Q5GT
30	01A	92A	6Q7G	151B	6A8GT	222	884
31	31	93	6B8	152	6K6GT	223	1H5GT
33	33	93A	6B8G	152A	6K6G	224	2C34-RK34
34	207	94	6J5	153	12C8Y	225	307A
35	35/51	94A	6J5G	154	814	226	3EPI/1806PI
36	36	94D	6J5GT/G	161	12SA7	227	7184
37	37	95	2A3	162	12SJ7	228	8012
38	38	96	6N7	163	6C8G	229	6SL7GT
39	869	97	5W4	164	1619	230	350A
39A	869A	98	6U5/6G5	165	1624	231	6SN7GT
40	40	99	6F8G	166	371A	232	E1148
41	851	100	807	167	6K8	233	6SR7
42	872	100A	807SPEC	167A	6K8G	234	1148
42A	872A	101	837	168A	6Y6G	235	615
43	845	103	6SQ7	169	12C8	236	836
44	32	104	12SQ7	170	1E5GP	237	957
45	45	105	6SC7	171	1R5	238	956
46	866	106	803	172	1S5	239	1LE3
46A	866A	107	6V6	173	1T4	240	710A
47	47	107A	6V6GT	174	3S4	241	7E5/1201
48	41	107B	6V6G	175	1613	243	7C4/1203A
49	39/44	108	450TH	176	6AB7/1853	244	5U4G
50	50	109	2051	177	1LH4	245	2050
51	841	111	5BP4/1802P4	178	1LC6	246	918
52	45SPEC	112	6AC7/1852	179	1LN5	247	6AG7
54	34	114	5T4	180	3LF4	248	3CPI/1808PI
55	865	115	6L6	181	7Z4	249	1006
56	56	115A	6L6G	182	3B7/1291	250	EF50
57	57	116	6SJ7	183	1R4/1294	251	WL441 Series
58	58	116A	6SJ7GT	184	OB3/VR90	252	923
60	850	116B	6SJ7Y	185	3D6/1299	254	304TH
62	801/801A	117	6SK7	187	575A	255	705A
63	46	117A	6SK7GT	188	7E6	256	GL486
64	800	118	832	189	7F7	257	K-7
65	6C5	119	2X2/879	190	7H7	259	829
65A	65CG	120	954	191	316A	260	OA3/VR-75
66	6F6	121	955	192	7A4	264	3Q4
66A	6F6G	124	1A5GT	193	7C7	266	1616
67	30SPEC	125	1C5GT	194	7J7	267	WL578
68	6B7	126	6X5	195	1005	268	2SC7
69	6D6	126A	6X5G	196	6W5G	269	717A
70	6F7	126B	6X5GT	197A	5Y3GT/G	277	417
72	842	128	1630	198A	6G6G	279	GY2
73	843	129	304TL	199	6SS7	282	ZG489
74	5Z4	130	250TL	200	OC3/VR105	286	832A
75	75	131	12SK7	201	25L6	287	815
76	76	132	12K8	201C	25L6GT/G	288	12SH7
77	77	133	12SR7	202	9002	289	12SH7GT

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