

## EQUIVALENTS

**NOTE:** Valve substitution types will depend largely on the particular application in the circuit used. Choose carefully and if in any doubt, check the valve data tables listed on this site.

	PHILIPS	MULLARD	AMERICAN	COSSOR	OSRAM	OTHERS	OTHERS	* Plate M/amps
<b>2 VOLT DC SERIES</b>								
-		PM2A	-	220PA	LP2	DEP215	DEP240	
-		PM12V	-	220VSG	VS2			
-		PM202	-	230XP	-			
A109		PM1	-	-	-			2
A209		PM2DX	-	210LF	L210	DE2LF	DER	4
"		PM1LF	-	"	"	DEL210	DEH210	4
"		PM2LF	-	"	"	"	"	
"		PM1HF	230	210HF	HL210	DE2HF	"	2.5
A225		"	"	"	"	"	"	2.5
A235		PM1A	230	210RC	H210	H2	"	1.3
-		PM2HL	"	210HL	HL210	"	"	
-		"	"	210HF	HL2			
B205		PM2	-	220P	P215	DEP215	LP2	7
"		"	-	215P	"	DEP240	P2/B	7.5
B217		PM2DX	-	210DET	L2/B	DE2HF	L21	
"		PM1LF	-	"	DE2LF			
-		"	-	210LF	DEL210	DEH210		
B228		-	-	-	HL2/K	DEH210	H2	
"		-	-	-	HL210	H21		
B240		PM2B	-	240B	B21			
B242		PM12	-	215SG	S215/S21			4.5
B255		PM12M	-	220VS	VS24	VS24K		
B262		PM12A	-	220SG	S21/S22	S23/24	S215	
C243		PM22	233	230PT	PT240	KT24	220PT	17
C243N		PM22A	-	220HPT	PT235/240	KT240	PT2K	
PH231		PM252	231	230XP	P240			6.8
<b>3 VOLT DC SERIES</b>								
A303		-	UX120	-	-			
A306		-	UX199	-	-			
<b>4 VOLT DC SERIES</b>								
A409		PM3	-	410HF	HL410	DE3	DE4	3.5
"		"	-	"	DEP410			
A415		PM3	-	"	HL410			3
"		PM4	-	"	"			
"		PM4DX	-	410LF	L410	DEL410		3.2
E424		-	-	-	H42			
A425		PM3A	-	410HF	HF410/HL410			0.8
A435		PM3A	-	410RC	H410			1.4
-		PM3B	-	"	DEH410			
-		PM3BX	-	"	H410			
A442		PM14/16	-	410SG	S410			2.3
B405		PM254	-	415XP	P415	DE6		8
"		PM4X	-	425XP	P425			8

PHILIPS	MULLARD	AMERICAN	COSSOR	OSRAM	OTHERS	OTHERS	* Plate M/amps
B406	PM4	-	410P	P410	P425	DEP410	7.5
B409	PM254	-	"	"	HL410	P425	6.5
B438	PM3B	-	410RC	DEH410	H410	KH1	
B443	PM24	-	415PT	PT425			12
-	-	-	4XP	PX4			30/35
-	PM3B	-	410RC				
-	PM3X	-	-	DE3			
-	PM4A	-	-	DE4			

#### 6 VOLT DC SERIES

A609	PM5X	UX201A	610RC	L610	DE5	DEL612	4
"	"	-	610HF	HL610	DE8LF	DEP610	8
A615	PM6D	"	610LF	L610	DE8HF	DEL610	4
"	PM50	"	"	"	DEH612		3.4
B605	PM6	UX171A	610P	P610			9
"	"	UX112A	"	"			8
A630	PM5X	UX201A	610H	HL610	DEH610		0.7
"	"	"	610HF	HLD610	H610		1.5
A635	PM5B	UX240	610RC	H610			1.2
A642	PM16	-	610SG	S610			4
-	PM256	-	625P	P625			
C603	PM256A	-	610XP	P625A			
C643	PM26	-	615PT	PT625			

#### 2.5 VOLT AC SERIES

F242	224	UY224	-	MY224			4
F209A	102T	UY227	-	MY227			5
F203	PM245	UX245	-	MX245			34

#### 4 VOLT AC SERIES

C443	PM24A	-	415PT	PT425			22
D404	AC044	-	4XP	PX4			30
E406	AC044	-	41MP	PX4			48
E408n	-	-	"	ML4			
E408n	AC044	-	"	PX4			30
E409	104V	-	"	ML4			12
E415	164V	-	41MLF	MHL4/C	KL1	VT91	6
E424	244V	-	41MHL	"	MH4	MH40	5.5
E424N	-	-	-	MH4	MHD4	MHL4	
E435	S4V	-	41MSG	MS4			1.3
E438	345V	-	41MRC	MH4	REN904		2.5
E442	S4V/A	-	41MSG	MS4	MS4B		1.5
E442S	"	-	"	"	MS4B	VMS4	3
E443H	PM24M	-	PT41	PT4			
E443N	PM24B	-	"	"			48
E444	SD4	-	-	-			
E445	MM4V	-	MVSG	VMS4	VMS4B		
E446	SP4	-	MS/Pen	MSP4	MS4	MSG/LA	
E447	VP4	-	MVS/Pen	VMP4	VMP4G		
E452T	SV4B	-	41MSG	MS4	MS4B	MSG/LA	3
E453	-	-	-	MKT4	MPT4	N40	

PHILIPS	MULLARD	AMERICAN	COSSOR	OSRAM	OTHERS	OTHERS	* Plate M/amps
E454	TDD4	-	DDT	MHD4			
E463	Pen4VA	-	4PPenA	MPT4	MP/PEN		
F410	DO/24	-	"	PX25			45
F443	PM24D	-		PT25			
<b>6VOLT AC SERIES</b>							
C603	PM256	UX171A	610XP	P625A			18
C643	PM26	"	"	PT625			21
"	"	"	615PT	"			17
C606	PM256	"	"	P625A			24
-	-	-	625P	P625			17.5
-	-	UX250	620T	-			50
<b>7 VOLT AC SERIES</b>							
F704	-	UX250	-	-			55
<b>RECTIFIERS</b>							
373	DU10	-	412SU	-			<b>Max. M/amps</b>
506	DU2	-	412BU	U9			
1560	PM280	UX280	-	MX280	U5		125
1561	DU2/DW4	6?	460BU	U14	U8	1832	120
1562	-	-	825BU	U8			
1821	DW2	-	506BV	U10			
1867	1W3	-	-	MU12			
-	1W4	-	431U	MU14			
-	DW8	-	-	U5			

\* Approximate milliamps the valve should draw under normal operating conditions

**Source** Lawrence & Hanson Electrical - circular May 1933  
 Listener In Set Constructor  
 History of GEC and the Marconi Osram Valve - Fin Stewart 1998

**Created** Art Courtney 6/07/2016 E&oe

Comments, corrections and additions are always welcome.

[EMAIL link](#)

