

# MULLARD D.C. MAINS VALVES (INDIRECTLY-HEATED)

Type.	Description.	Base.	Bulb Finish.	If.	Characteristics at $V_a = 100$ ; $V_g = 0$ .			(a) $V_a$	(b) $V_s$ or $V_{aux}$	(c) $V_g$ for (a) or (b)	$I_a$ for (c)	Optimum Load.	Price.
					$r_a$	$m$	$g_m$						
V.P.20	Variable-mu H.F. Pentode ..	5-pin	Met.	0.18	—	—	2.5*	200	100	1.5	4.5	—	17/6
S.P.20	H.F. Pentode .. ..	5-pin	Met. or Clear	0.18	—	—	2.7*	200	100	1.5	4.5	—	17/6
S.G.20	Screened Tetrode .. ..	5-pin	Met.	0.18	375,000	750	2.0*	200	100	1.5	3.0	—	17/6
S.D.20	Diode-Tetrode.. ..	7-pin	Met.	0.18	—	—	3.0	200	100	1.5	5.0	—	20/-
T.D.D.25	Double-diode-triode .. ..	7-pin	Met.	0.18	15,000	30	2.0	{ 100 150 200	—	2.0	2.0	—	15/6
H.20	Medium Impedance Triode ..	5-pin	Met.	0.18	—	—	2.6		—	0.75	0.75		
H.L.20	Medium Impedance Triode ..	5-pin	Met.	0.18	14,000	35	2.5		—	1.5	1.0		
Pen. 20	Output Pentode .. ..	5-pin or 7-pin.	Clear	0.18	—	—	2.5	200	200	15.0	25.0	8,000	18/6

\*  $V_a = 200$ ;  $V_s = 100$ ;  $V_g = 1.5$ .

# MULLARD UNIVERSAL (D.C./A.C.) MAINS VALVES (SIDE CONTACT BASES)

Type.	Description.	Base.*	Bulb Finish.	Vf.	If.	Characteristics at $V_a = 100$ ; $V_g = 0$ .			(a) $V_a$	(b) $V_s$ or $V_{aux}$	(c) $V_g$ for (a) or (b)	$I_a$ for (c)	Optimum Load.	Price.
						$r_a$	$m$	$g_m$						
T.V.6	Tuning Indicator .. ..	P	Clear	6.3	0.2	—	—	—	250	—	—	—	—	10/6
F.C.13	Octode Frequency Changer	P	Met.	13	0.2	1,500,000	—	—	200	90	1.5	1.6	—	20/-
V.P.13A	Variable-mu H.F. Pentode..	P	Met.	13	0.2	1,000,000	2,200	2.2	200	100	2.0	4.0	—	17/6
S.P.13	H.F. Pentode .. ..	P	Met.	13	0.2	1,300,000	3,000	2.2	200	100	2.0	3.5	—	17/6
2D.13A	Double-diode-detector ..	V	Met.	13	0.2	—	—	—	—	—	—	—	—	5/6

\*P Base = 8 contact; V base = 5 contact.