

THE "AVO"
VALVE CHARACTERISTIC METER

Mk. IV.

WORKING INSTRUCTIONS

FIRST EDITION



PUBLISHED BY
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FOREWORD

FOR more than a quarter of a century we have been engaged in the design and manufacture of " AVO " Electrical Measuring Instruments. Throughout that time we have consistently pioneered the design of modern multi-range instruments and have kept abreast of and catered for the requirements of the epoch-making developments in the fields of radio and electronics.

The success of our steadfast policy of maintaining high standards of performance in instruments of unexcelled accuracy, and making such instruments available at reasonable cost, is reflected in the great respect and genuine goodwill which " AVO " products enjoy in every part of the World.

It has been gratifying to note the very large number of instances where the satisfaction obtained from the performance of one of our instruments has led to the automatic choice of other instruments from the " AVO " range. This process, having continued over a long period of years, has resulted in virtual standardisation on our products by numerous Public Bodies, The Services, Railway Systems, and Post Office and Telegraph Undertakings throughout the world.

Our designers have thereby been encouraged to ensure that new instruments or accessories for inclusion in the " AVO " range fit in with existing " AVO " apparatus and serve to extend the usefulness of instruments already in use. Thus, the user who standardises on " AVO " products will seldom find himself short of essential measuring equipment, for, by means of suitable accessories, his existing equipment can often be adapted to meet unusual demands.

It is with pleasure that we acknowledge that the unique position attained by " AVO " is due in no small measure to the co-operation of so many users who stimulate our Research and Development staffs from time to time with suggestions, criticisms, and even requests for the production of entirely new instruments or accessories. It is our desire to encourage and preserve this relationship between those who use " AVO " Instruments and those who are responsible for their design and manufacture, and correspondence is therefore welcomed, whilst suggestions will receive prompt and sympathetic consideration.

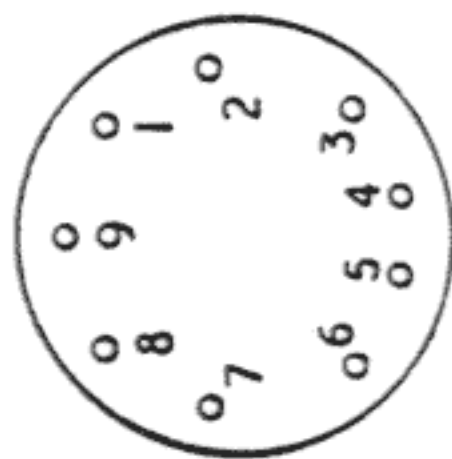
priate valve holder, use the universal top cap lead to connect any top cap or side connection on the valve to its appropriately marked socket, on the Socket Panel immediately behind the Selector Switch. Note that the loctal valve holder having only eight normal pins has its centre lug connected to the ninth roller (corresponding to pin No. 9) to accommodate valves which have a cathode connection made to this lug.

The accompanying examples show how to correlate the pin basing data and the equivalent set-up combination for a number of valves in common use.

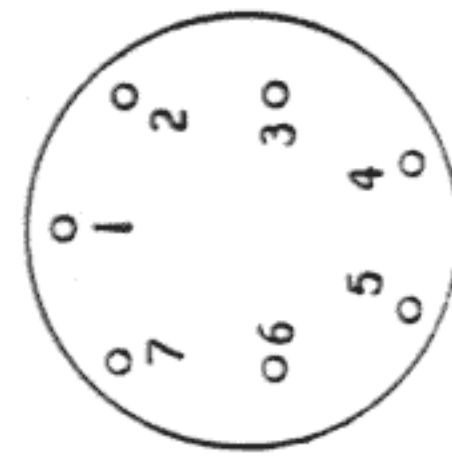
<i>Valve Type</i>	<i>Set up Number</i>									<i>Base Diagram</i>
1. Osram MH4 indirectly heated triode. British 5-pin base.	6 A	4 G	2 H—	3 H+	1 C	0 —	0 —	0 —	0 —	
2. Osram U50 full wave rectifier directly heated. Octal base.	0 —	2 H—	0 —	8 D1	0 —	9 D2	0 —	3 H+	0 —	
3. Mullard PenA4 indirectly heated output pentode. British 7 pin base.	0 —	4 G	5 S	2 H—	3 H+	1 C	6 A	0 —	0 —	
4. American 6K8 indirectly heated frequency changer. Octal base.	0 —	2 H—	7 A2	5 S	4 G	6 A	3 H+	1 C	0 —	
5. Mullard TDD2A battery double diode triode. British 5-pin base.	6 A	8 D1	2 H—	3 H+	9 D2	0 —	0 —	0 —	0 —	
6. Mullard EF50 indirectly heated HF pentode. B9G base.	2 H—	5 S	6 A	1 G	0 3	1 —	4 C	0 G	3 —	

DIAGRAM OF STANDARD PIN CONNECTIONS

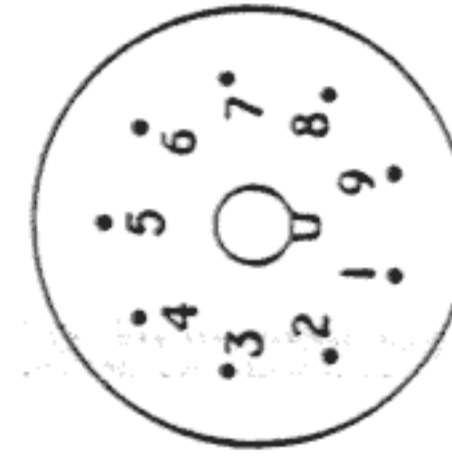
(viewed from  side of base)



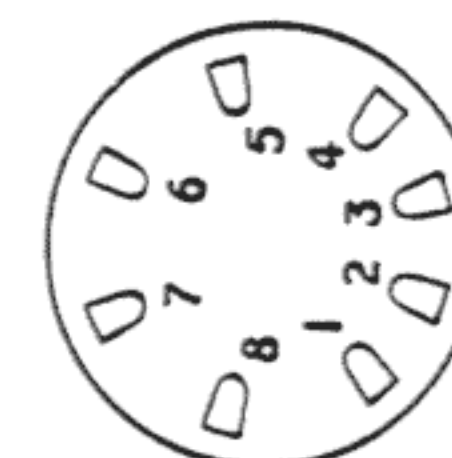
BRITISH NINE PIN (B9)



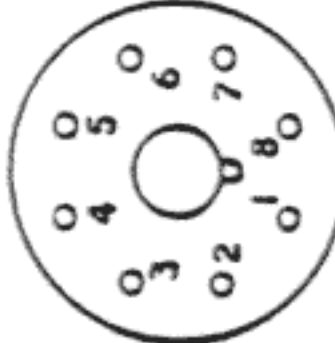
BRITISH SEVEN PIN (B7)



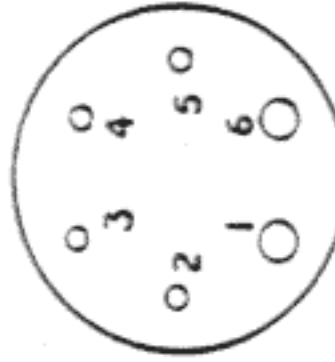
B9G



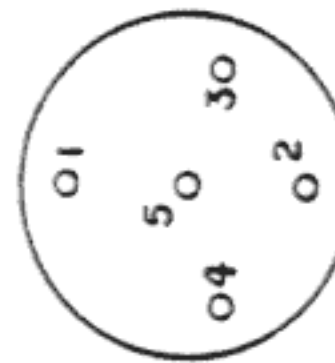
'P' TYPE BASE (BSC)



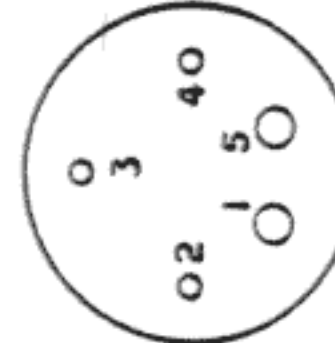
INTERNATIONAL OCTAL (AO8)



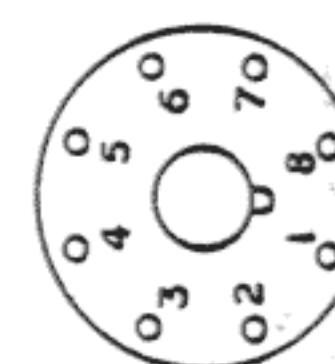
AMERICAN SIX PIN (UX6)



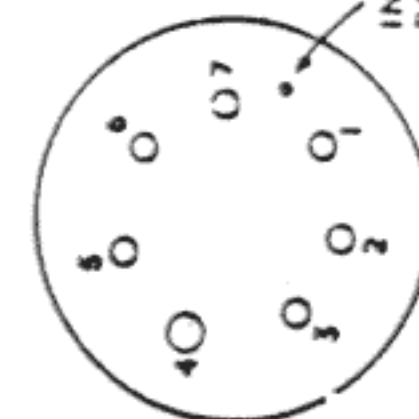
BRITISH 4/5 PIN (B5 & B4)



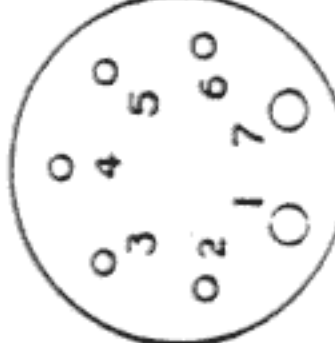
AMERICAN FIVE PIN (UX5)



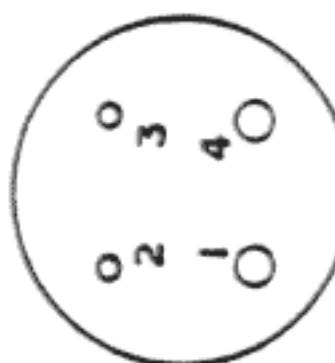
MAZDA OCTAL (MO8)



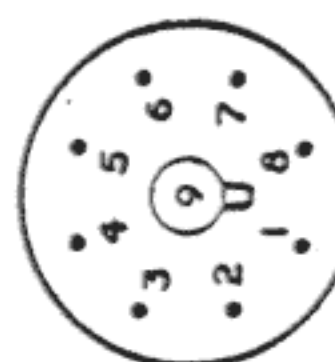
B7A



AMERICAN SMALL SEVEN PIN (SM7)



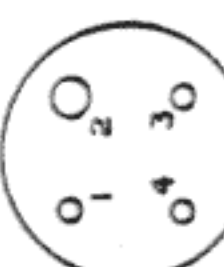
AMERICAN FOUR PIN (UX4)



AMERICAN OCTAL (B8B or B8G)



SUB MINIATURE 8 PIN (B8D)



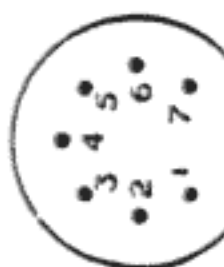
HIVAC FOUR PIN (SM4)



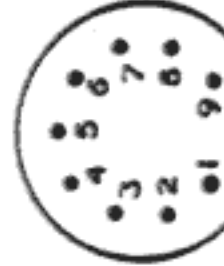
HIVAC FIVE PIN (SM5)



AMERICAN SEVEN PIN (UX7)



B7G



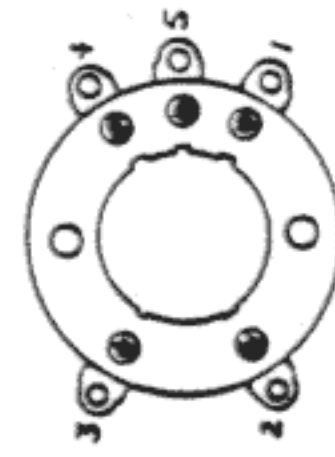
B9A



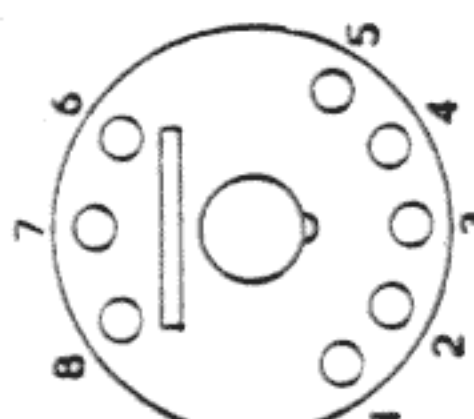
B3G



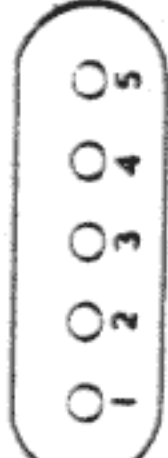
B5B



5AA & 7AA
(ACORN VALVES)



F8



B5A

COLOURED
SPOT →

