

Oil Relief Valve

This valve consists of an angle valve body in which a cup valve is held over the relief opening by a "U" spring, the other end of which is secured to an adjustable screw plug. The plug adjusting opening is closed against leakage by a standard pipe plug. The assembly is shown in Fig. 1.

A neck on the cup valve "9" extends through a hole in the spring "8" and is peened over a washer "10" so as to leave clearance for free seating of the valve on the finish machined seat in body "2". The other end of the spring is secured to the plug "5" with a nut "7" and washer "6", and the threads on the plug end are prick punched to prevent the nut from working off, the spring being just a snug sliding fit between the washer "6" and the plug.

The relieving pressure can be adjusted by screwing plug "5" in or out to increase or decrease the spring compression.

The valve is used to maintain a predetermined operating oil pressure for the governor mechanism, the major part of the oil delivered by the oil pump being discharged through the relief valve into the oil cooler and thence to the bearing lubrication system.

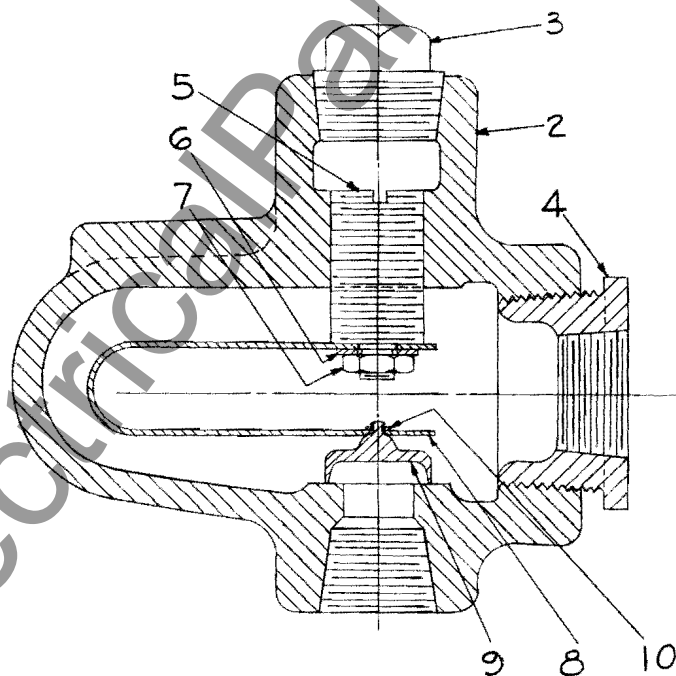


Fig. 1 - Oil Relief Valve

<u>Item No.</u>	<u>Name</u>	<u>Item No.</u>	<u>Name</u>
1	Assembly	6	Washer
2	Relief Valve Body	7	Lock-Nut
3	Relief Valve Body Plug	8	Relief Valve Spring
4	Relief Valve Body Bushing	9	Cup Valve
5	Relief Valve Adjusting Screw	10	Washer