



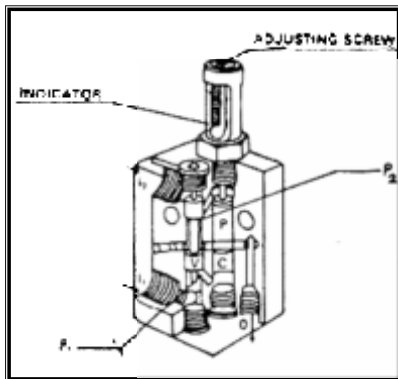
DOSE FEEDERS



Dose Feeders are the dual line adjustable measuring valve blocks employed in the Centralised Two - Line Grease Lubrication Systems to deliver measured quantity of lubricant to the bearing points under system pressure. These are mounted across the two lines and the outlets are connected to the bearing points by means of suitable pipe line .The operation of a typical Dose Feeder is illustrated in Fig. 3.

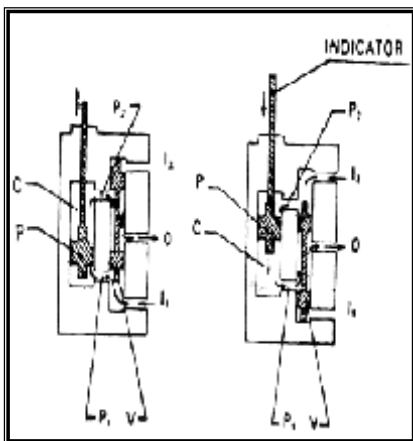
OPERATION

Grease inlets are I 1 and I 2 and Grease outlet during one cycle, grease enters through I 1 and subsequently pushes the shuttle valve V up, thereby opening port P 1 into the under cut of the shuttle valve V.



Grease now enters through port P 1 into the bottom of chamber C and pushes piston P up. Consequently, grease collected in the top of chamber C during the earlier cycle is pushed out by the piston P in its upward movement through port P 2, via the under cut of shuttle valve V, horizontal cross bore and finally out of the feeder through O.

In the next cycle similarly grease enters through I 2 pushes shuttle valve V down, enters top of chamber C through port P 2, pushes the piston P down, thereby driving out the grease collected in the bottom of chamber C during the first cycle through port P 1, shuttle valve under cut , horizontal cross bore and finally out through outlet O.



The indicator provides visual indication that the main piston P is working up and down during cycles of lubrication. Adjusting screw provided on the top of the indicator can be set, as desired, to limit the stroke of the main piston P, thereby limiting the output.