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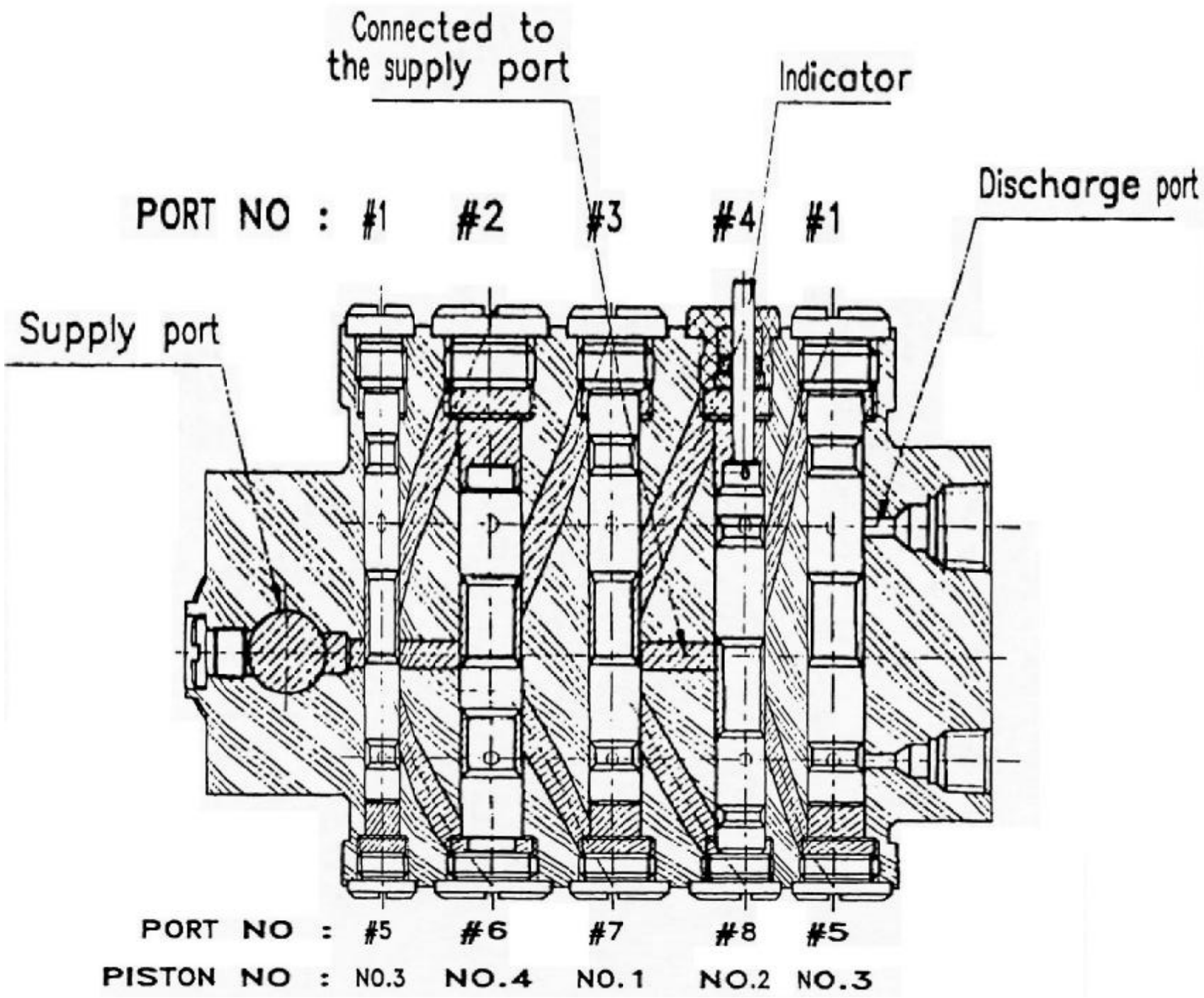
Progressive Distribution Block Operation

Example: 8 Port Distribution Block

(refer to attached sketch of the block for piston and port numbers)

1. The grease enters through the supply port and pushes down piston #1, which discharges the grease in the lower space of piston #1 out discharge port #6.
2. When piston #1 goes down it blocks the incline passage which connects with piston #2. The lower space of piston #1 connects to the other incline passage, and the upper space of piston #2 is connected to discharge port #3 via the incline passage.
3. The pressurized grease pushes up piston #2, which discharges the grease in the upper space out discharge port #3. When piston #2 goes up, the indicator pin moves out, the incline path to port #3 becomes blocked, and the upper space gets connected to the incline path.
4. The pressurized grease pushes down piston #3, discharging the grease in the lower space into discharge port #8.
5. When piston #3 moves down, the passage connecting it with piston #4 closes and the lower space gets connected to the incline passage. The discharge port #1 connects to the incline passage of piston #4. The pressurized grease pushes up piston #4 and discharges the grease from the upper space of piston #4 out discharge port #1.
6. This completes the first half of the lubrication cycle.
   The second half is in the reverse order:
   piston #1 moves up, discharging out port #2,
   piston #2 moves down, discharging out port #7,
   piston #3 moves up, discharging out port #4,
   and then piston #4 moves down, discharging out port #5.
7. The discharge order is:
   #6 - #3 - #8 - #1 - #2 - #7 - #4 - #5
8. The operation of the 4 and 6 port blocks are similar.


Connected to
the supply port
Indicator
Discharge port
PORT NO : #1 #2 #3 #4 #1
Supply port
PORT NO : #5 #6 #7 #8 #5
PISTON NO : NO.3 NO.4 NO.1 NO.2 NO.3