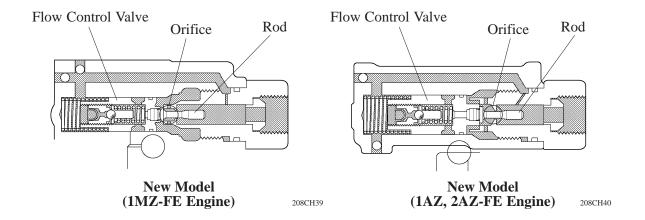
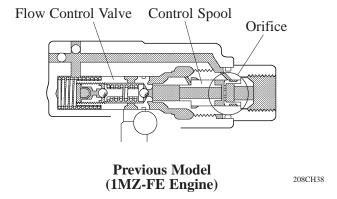
#### **■ POWER STEERING VANE PUMP**

#### 1. Construction

In this pump, the control spool to control the pump flow volume in the middle and high range of the pump speed has been discontinued and a rod for the flow control valve which decides the flow volume opening area has been established instead.

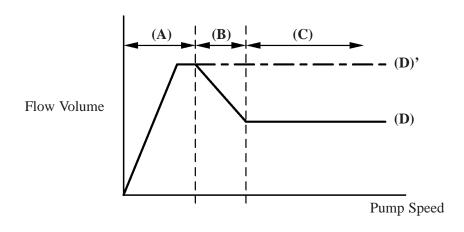
Other basic structure and operation are the same as before.





# 2. Operation

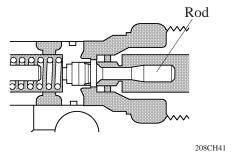
#### ► Flow Volume Characteristics <



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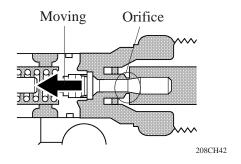
### Low Speed Range (A)

Flow volume increases in accordance with the increase of pump speed.



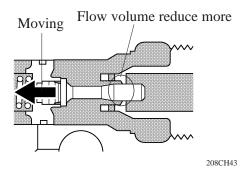
### Middle Speed Range without Steering (B)

The flow control valve moves to the left and reduces the flow volume by drawing the orifice accordance to the change of the shaft diameter of the rod.



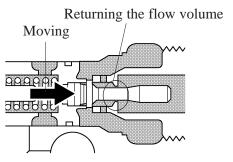
## High Speed Range without Steering (C)

The flow control valves moves further left and with the maximum shaft diameter of the rod, the flow volume reduces more.



## **During Pressure Loading (D → D')**

If operating the steering in the middle and high speed range, the flow control valve moves to the right according to the pressure increase of the vane pump resulting in opening the orifice and returning the flow volume.



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