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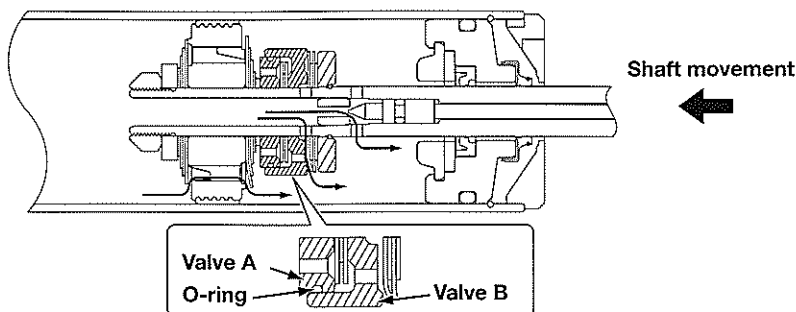
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DFV : Dual Flow Valve

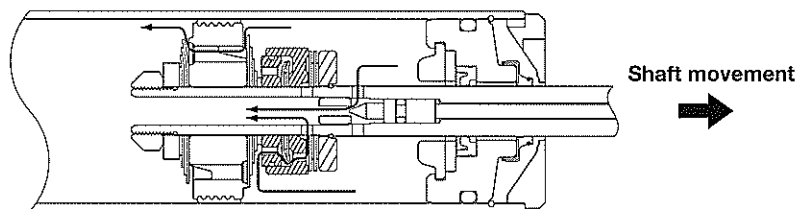
As shown in the sketch, the DFV (Dual Flow Valve) is a sub-piston system, which is composed of compression valve A and rebound valve B. The settings for valve A and B can be changed individually.

Compression stroke



During a compression stroke, oil flows through 3 different passages as shown in the sketch. At low shaft speeds the DFV is closed, and the damping from the bleed valve and the piston shim stack is tailored to give good steering response. When hitting a bump, the DFV opens instantly to absorb the impact.

Rebound stroke



During a rebound stroke, oil also flows through 3 different passages as shown in the sketch. At low shaft speeds the DFV is closed, and the damping from the bleed valve and the piston shim stack is tailored to give good steering response. When passing a pothole or sudden depression in the road, the DFV opens instantly to keep the tyre in contact with the road.

With the extra third valve created by incorporating the DFV, the damping force characteristics can be tailored to improve both handling and comfort at the same time, something that is not possible without the DFV.