

Title (en)

CONCENTRIC COMPENSATOR CHAMBER AND MASTER CYLINDER FOR DISC BRAKE SYSTEM

Title (de)

KONZENTRISCHE KOMPENSATIONSKAMMER UND HAUPTZYLINDER FÜR SCHEIBENBREMSANLAGE

Title (fr)

CHAMBRE DE COMPENSATION CONCENTRIQUE ET MAITRE-CYLINDRE POUR UN SYSTEME DE FREINS A DISQUES

Publication

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Application

EP 99918859 A 19990428

Priority

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Abstract (en)

[origin: WO9955567A1] A disc brake assembly (10; 100) is provided which is hydraulically operated with brake fluid. A master cylinder chamber (30) is formed within a concentric cylinder (18) about which is concentrically disposed an internal thermal compensation chamber (42). The master cylinder chamber (30) and the internal thermal compensation chamber (42) are in fluid communication to allow for the passage of the brake fluid therebetween. A master cylinder piston (32) is slidably disposed in the master cylinder chamber (30) to generate pressure build-up in the brake fluid to cause actuation of disc brakes. A compensator piston (50) is disposed within the internal thermal compensation chamber (42) and is urged by a spring (56) to be in engagement with the brake fluid. By continuously maintaining engagement between the compensator piston (50) and the brake fluid, there can be the prevention of air pocket formation in the brake fluid, thus eliminating the need for air pocket removal through bleeding.

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