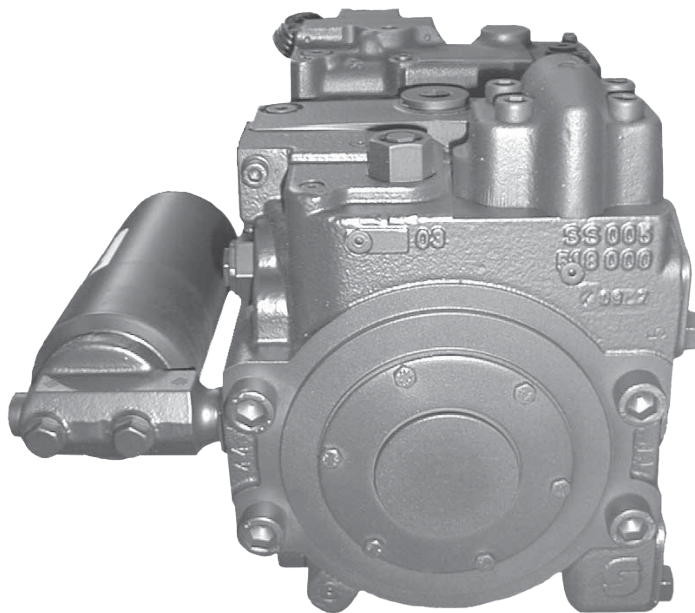


Data Sheet

Integrated Brake Function IBF



Danfoss has developed a system, which prevents engine over-speeding. This feature is called Integrated Brake Function (IBF) and is available for series 90 pumps.

The special components are a pilot operated pressure reducing valve and an orifice installed in the pump end cap. They are located in the return line from the motor and reduce the maximum pressure at the pump while braking.

The main advantage of this function is when starting to brake - when the pump is still at maximum angle - the system pressure across the pump is limited to prevent engine over-speed.

The full braking power of the engine is used in every braking condition.

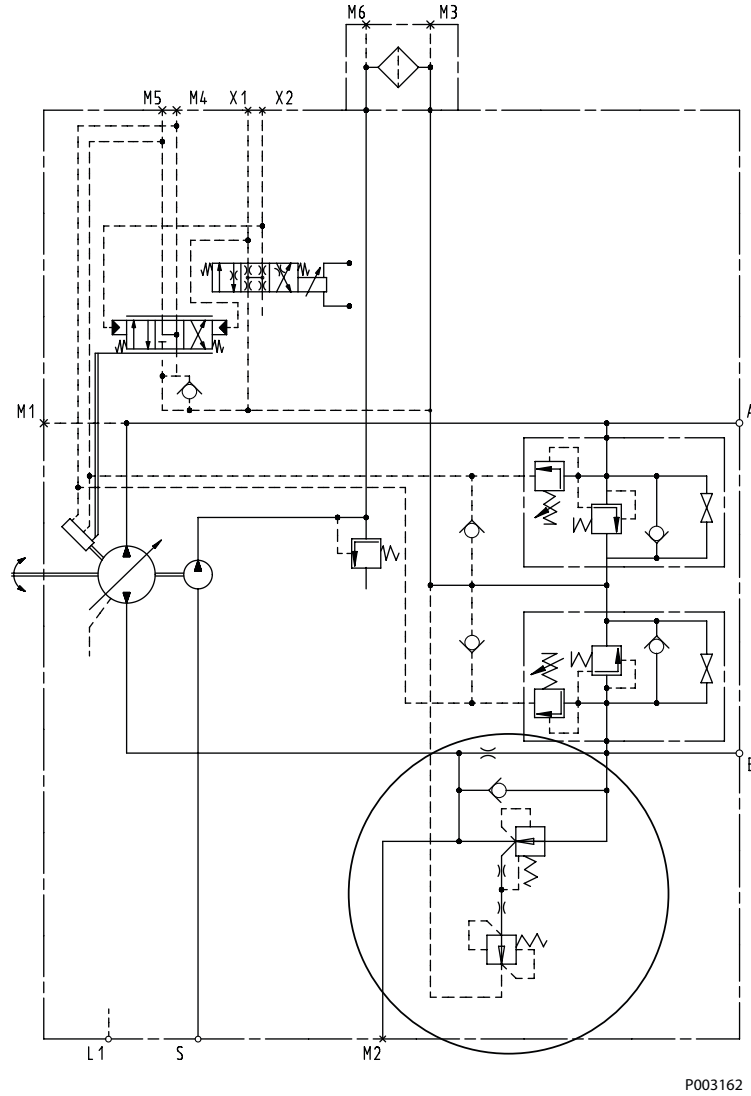
Features

- Avoids over-speeding of the diesel engine and other attached components.
- The hydrostatic braking power of the machine is not influenced. Across the motor, the maximum braking pressure of 450 bar is available.
- No change in driving comfort
- Wear-resistant system
- Easy to retrofit
- Nearly the same installation dimensions as standard pumps
- No electronic / sensors are necessary

General Specifications

Availability	Series 90 pumps with 100 cm ³ [6.10 in ³] and 130 cm ³ [7.93 in ³]
Pressure rates of the brake valve	175 [2500], 210 [3050], 250 [3625], 280 [4060], 310 [4495] bar [psi]
IBF	Works only if braking mode comes from forward direction

Circuit Diagram



Danfoss Power Solutions US Company
 2800 East 13th Street
 Ames, IA 50010, USA
 Phone: +1 515 239 6000

Danfoss Power Solutions GmbH & Co. OHG
 Krokamp 35
 D-24539 Neumünster, Germany
 Phone: +49 4321 871 0

Danfoss Power Solutions ApS
 Nordborgvej 81
 DK-6430 Nordborg, Denmark
 Phone: +45 7488 2222

Danfoss Power Solutions
 22F, Block C, Yishan Rd
 Shanghai 200233, China
 Phone: +86 21 3418 5200

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