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“FASSI D850 DIGITAL DISTRIBUTOR”

With the new **D850** distributor, Fassi opens the era of the application of digital distributor having high multifunction characteristics also for the medium/heavy crane range. The electronic with its extraordinary potentialities is the mean to intensify new hydraulic innovative technologies.

Distributor with high “**load-sensing**” **proportional multifunctionability**, available also for activation with variable displacement pumps, in its standard configuration is fitted with:

- Pressure reducer valve, placed in the inlet head, to feed the electro-hydraulics modules.
- Main relief valve in the inlet head.
- LS exit for the connection and control emergency return systems (safety solenoid valves) in the inlet head.
- Pressure compensator in the inlet head and on rotation control segment. The last one, is avoiding accelerations on rotation movement when simultaneously an additional manoeuvre is demanding a higher pressure.
- Antishock valves (LS) on ports A and B of each distributor segment to adjust the working pressure of the functions.
- Spools of the distributor segment calibrated in respect of the characteristics of the functions (oil way dimensions, open or closed centre, oil flow or pressure control, etc.).



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The **D850** essentially differentiates itself from the traditional products utilized by the competitors, for:

- High performances **Digital electro-hydraulic modules** connected to the main electronic control unit by **Can bus** digital data transmission system.
- **Electronic flow-sharing** or **antisaturation system** performing the electronic control of the oil flow to the crane functions.

ELECTRONIC FLOW SHARING

What's the **electronic flow-sharing** or **electronic antisaturation system**?

Based on the known fact that the oil always chooses the easiest way, meaning the one requiring less pressure, also the most advanced distributors defined "multifunction" require the input of the operator to obtain an effective multifunction operation with constant featuring of the spools of the distributor segments simultaneously activated: this being on necessity to compensate the tendency of the oil to favour the crane functions requiring less pressure to be operated up to the condition that, without the action of the operator, when fully and simultaneously opening more spools at the same time, it is possible that some of the selected crane functions will stay still.

The **electronic flow-sharing function** replaces the operator and tanks to:

- a specifically dedicated software
- special electro-hydraulic modules directly in communication with the main control unit via Can bus protocol data transmission system
- sophisticated hydraulic of the distributor,

controls and handles the proportional distribution of the oil among the functions that are simultaneously activated. As a consequence all the crane functions activated simultaneously will move proportionally to the oil flow provided by the pump as well as to the quantity of oil required by the crane function.

Advantages for the operator:

- **The flow-sharing system** is the only one allowing to utilize a multifunction distributor up to its maximum potentiality.
- The Fassi system, in its uniqueness, utilized the dedicated electronic to manage a full multifunction condition.
- **This system is activated also at reduced working speeds**, selected by means of the control switch or icons.
- All functions are perfectly **controlled, proportional and smooth**, as electronic management further enhances the superior hydraulic performance of the distributor.
- This also means significant time savings, as the multifunctional characteristics of the distributor are fully exploited.