



## HYDRAULIC POWER FOR A BETTER LIFE

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# Safim evolution





# safim evolution

**FROM THE ROOTS of our most representative products TO THE FUTURE of smart applications** 













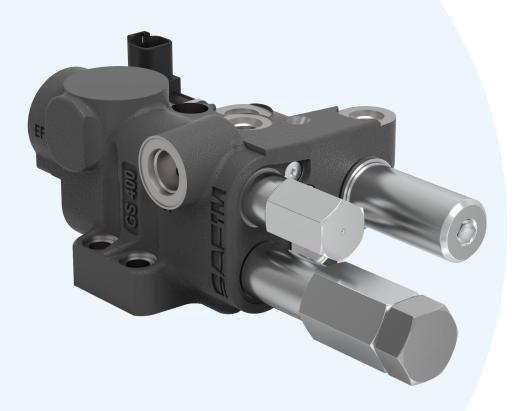






### MPV-FL

MASTER PRIORITY WITH VARIABLE STAND-BY PRESSURE





## MORE EFFICIENCY

- Less vehicle power need in typical operating conditions
- Lower Operating Costs
- Environmental Benefits Lower energy footprint

# Multi-Level Priority Valve designed to manage:

- Steering
- Brakes
- Transmission
- Auxiliary Functions

# Load Sensing margin electronically adjustable for several logics:

- **Energy Saving** 
  - very low stand-by in idle
  - able to accept very low-pressure pump margin
- Maximum Performances
- Adaptive Working Conditions
- Simultaneous Functions

#### Fault-Tolerant hydraulic design with different logics:

- Incorporated electro-proportional device
- Phased with external device (Pump compensator)
- Works with variable and fixed displacement pumps



### **CPB**

ELECTRO-HYDRAULIC PARKING BRAKE VALVE







- Mother Regulation compliant
- Works with vehicles up to 60 kph & over 60 kph
- Mechanical parking brake disangagement available

# MORE ASSISTED Comfort FUNCTIONS

ADAS (Smart Functions)

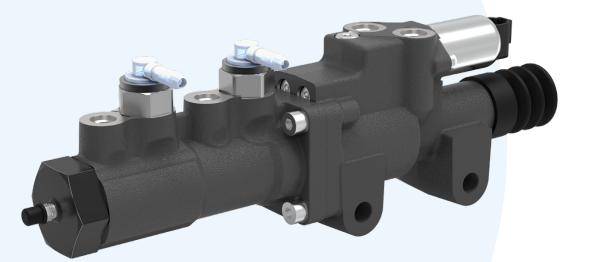
#### **EH Parking Brake Valve:**

- Redundant Safety Logic (Mother Regulation UE 2015/68 and UE 167/2013 compatible)
- Negative Pilot Logic
- Modular Design to fit all application needs
- Optimized Modulation Range for each SAHR axle through electro-proportional control
- Compact design with 2 control valves and one high flow spool
- Control secondary brake function
- Max brake pressure controlled by main spool (independent from control signal and feeding pressure)



#### MC-SB-S-EH

BRAKE BY WIRE MASTER CYLINDER





Automatic Braking

Remoted Braking

# MORE ASSISTED Comfort FUNCTIONS

- ADAS (Smart Functions)
- Selectable Braking Mode (On Road / Off Road / Working Modes)
- Suitable for reverse drive / dual operator station

# more automated Braking for FUNCTIONS

unmanned vehicles

## Master Cylinder with Hydraulic Booster:

- CC Booster feeding by CP line
- Range of Booster/MC ratios available
- EH proportional control independent from hydraulic booster
- Up to 2 braking circuits
- Mineral Oil or Brake Fluid (DOT)

#### **EH-PRV** integrated in Booster stage:

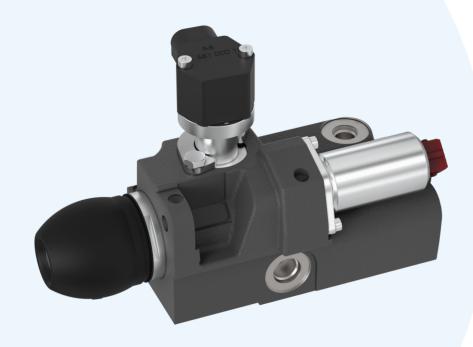
- Space-saving layout
- Position Sensor integrable (Fault diagnostic / Inching command)
- Different internal logics for different purposes
- Suitable for retrofitting (Interchangeable with current MC)

Member of



#### 56e-eH

BRAKE BY WIRE POWER BRAKE VALVE





### more safety

Automatic Braking

Remoted Braking

# MORE ASSISTED Comfort FUNCTIONS

ADAS (Smart Functions)

unmanned vehicles

- Selectable Braking Mode (On Road / Off Road / Working Modes)
- Suitable for reverse drive / dual operator station

# more automated Braking for FUNCTIONS

## **Dual-Circuit brake by wire Power Brake Valve:**

- Engineered for large volume / high flow applications
- EH command acts only if greater than operator command
- Pedal Position / Brake feeling doesn't change
- Configurable Pedal Layout
- Various Options Integrable
- Suitable for retrofitting (Interchangeable with current valve)

#### **EH-Braking Option:**

- EH-PRV integrated for Braking Actuation
- No Additional Feeding Circuit needed
- Position Sensor integrable (Fault diagnostic / Inching command)



## TOWARD NEXT GEN VEHICLES

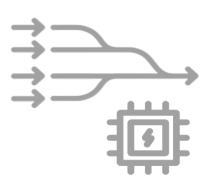






### **COMPLEXITY REDUCTION**

Software configuration Less varians





MORE EFFICIENCY

MORE SAFETY

MORE ASSISTED FUNCTIONS

MORE AUTOMATED FUNCTIONS



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