

Introducing Eaton's newest steering solution, the ASV60 advanced steering valve

ASV60 steering valves are available in three configurations:

Option 1:

Steer-by-wire (mounted to secondary EH valve)

Option 2:

Mounted to Series 10 steering control unit

Option 3:

Mounted to XCEL45 steering control unit



Since 1961, Eaton has been the leader in steering solutions. Now, Eaton is proud to announce the newest addition to its portfolio, the ASV60 advanced steering valve. The ASV60 is designed to meet the demanding requirements of mobile equipment in both an electrohydraulic (EH) and steer-by-wire (SbW) configuration.

Design flexibility

With the most compact design on the market, the ASV60 advanced steering valve increases flexibility and functionality when working with limited engine compartment space or when adopting electrical inputs into today's steering solutions.

When used as a steer-by-wire solution, the ASV60 valve allows machine designers to remove the steering column and replace with smaller, precise steering mechanisms such as a joystick or wheel with tactile feedback device.

For applications where an orbitrol steering unit is still desired, the ASV60 may be coupled with an Eaton Series 10 or XCEL45 steering control unit providing multiple steering input options.

Ergonomics & safety

An isolation spool provides redundant EH shut-off capability, giving the orbitrol steering unit absolute priority at all times – a critical feature needed to ensure functional safety requirements are met. This configurability lends itself to use with GPS-driven automatic navigation systems.

Eaton steer-by-wire solutions are designed to pair easily with your machine's control system or, if you prefer, connect our SFX safety controller to streamline your path to meeting functional safety requirements.

Open architecture

Flow demand is communicated to the valve by way of CAN protocol. The on-board electronic controller and redundant spool position sensor make precise flow control possible while also enhancing diagnostic coverage and, hence, overall functional safety. The ASV60 will also work with Eaton's HFX controller as well as most other CAN controllers.



The compact ASV60 advanced steering valve increases flexibility and functionality when working with limited space.









Applications

- · Telehandlers
- · Backhoe loaders
- · Forestry equipment
- · Compact wheel loaders
- · Heavy-duty material handling machinery
- Harvesters
- Tractors

Specifications

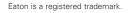
Maximum system pressure	210 bar
Maximum back pressure	21 bar (300 PSI)
Maximum flow	60 I/min (15.8 GPM)
Operating temperature range	-20°C to 93°C (-4°F to 200°F)
Fluid	Petroleum-based fluids
Recommended filtration	ISO 18/16/14 cleanliness level
Communication protocols	PWM driven or CANJ1939
Environmental protection	IP69K
Coil/connector type	12 or 24 VDC, Deutsch
Port sizes	P,R,L,T − M18 x 1.5, 3/4-16 SAE, ½ BSP

ASV60 benefits

- Pre-configured with J1939 communication
 - Allows customization of steering parameters
 - · Vary steering rate with speed, on demand or any other parameter
- · Allows traditional EH steering with an orbitrol and steer-by-wire capability
- · No need for traditional steering unit near cab with steer-by-wire solution
 - Reduces hose
 - · Increases design flexibility
 - · Reduces in-cab noise
- Easy auto-steer integration
- · Optional load reaction capability

Eaton 1000 Eaton Boulevard Cleveland, OH 44122 United States Eaton.com

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