ENGINEERING TOMORROW

Data Sheet

PVE-CI Series 6

A digitally controlled actuator is now available for PVG 16. The PVE-CI Series 6 is based on the hydraulic concept known from the analog versions of the PVEA and PVEO Series 6.

The PVE-CI Series 6 adds high level feedback and effective cabling to the easy controllability and high precision known from the analog PVE Series 6 actuators.

PVE-CI is an innovative actuator with CAN interface providing a cost-effective solution for On/Off functions.

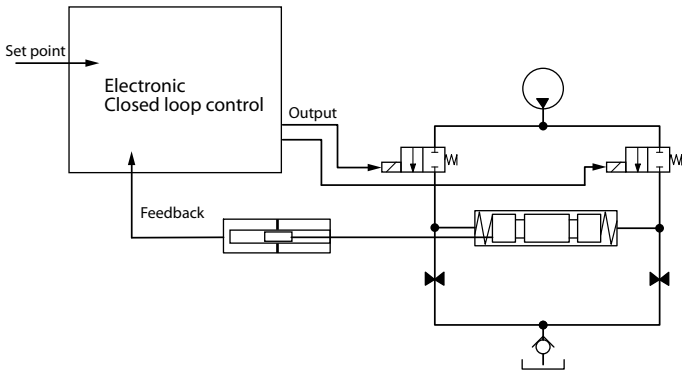
PVEA-CI creates additional value to the state of the art Danfoss proportional closed loop spool position control. Supported by the harmonized CAN interface, the module can be integrated easily into the overall machine control system.

Features

Feature	Values
CAN actuator with focus on core technology	Cost-effective CAN communication
CAN bus technology	Bi-directional communication
J1939/ISO bus and CAN open	Standardized communication
CAN bus wiring/loop cable	Simplified cable harness
Integrated diagnostics	Easy trouble shooting/application surveillance
Electrical On/Off actuation (PVEO-CI)	Cost-effective CAN actuation
Closed loop spool position control	Advanced controllability/3% hysteresis (PVEA-CI)
Proportional spool position signal (PVEA-CI)	Flow feedback
Integrated LED (PVEA-CI)	Visual feedback
Multi-voltage functionality 11-32V (PVEA-CI)	Flexibility in voltage supply
PLUS+1® Compliant	System solution/easy data access

Comprehensive technical literature online at *powersolutions.danfoss.com*

Danfoss state of the art closed loop spool position control:



Closed loop control basis	The Danfoss control concept monitors the actual spool position continuesly. This, on one hand, allows the actuator to compensate any changes by correcting any deviations compared to the setpoint immediately. This includes internal flow forces but also external disturbances. On the other hand, the module makes relevant additional information available for the overall machine system.
CAN communication means efficient cabling	The PVE-CI controls valves with well-known Danfoss precision and less cabling. One communication cable can facilitate all the CAN components on the vehicle and ensure high quality control and feedback. The PVEA-CI contains the same analog position control circuit as the analog PVEA plus digital circuitry to enable flow control using CAN.
Digital control means insight	The digital control of the PVE-CI continuously monitors valve behavior and actuator reliability. The PVEA-CI closed loop control of the valve is enhanced with flow reporting to the system. The high level of internal evaluations ensures safe control of the valve.

Description	**ISOBUS**	**CANopen**
PVEO-CI	11124002	11149443
PVEA-CI	11121945	11149437
Loop cable	11095622	11095622
Cable 4000 mm	11095741	11095741
120 Ω terminator	11007561	11007561

Further technical documentation and part numbers

Electrohydraulic Actuator-PVE-CI Series 6: Technical Information	L1505234
PVG 16: Technical Information	L1214235