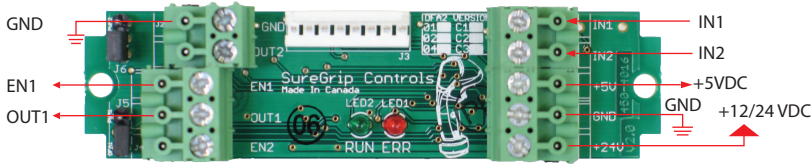


## Sauer Danfoss PVG/PVE Series Proportional Valve Driver

### Danfoss Adapter Driver Board (Part# DFA2-01)



OUT1: PROPORTIONAL CONTROL OUTPUT  
EN1: VALVE ENABLE OUTPUT

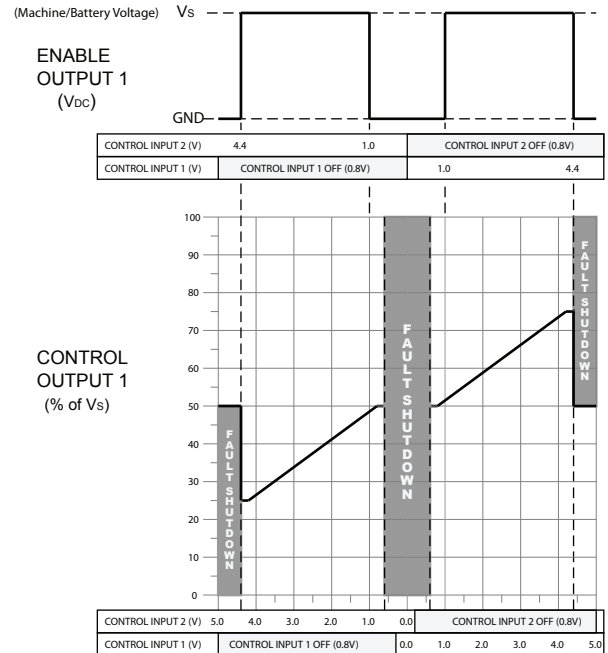
IN1: PROPORTIONAL CONTROL INPUT 1  
IN2: PROPORTIONAL CONTROL INPUT 2

## Applications

- Configured for Variable Voltage Module Type Control Inputs
- Electro Hydraulic Valve Driver, Specifically Designed to Control Sauer Danfoss PVG/PVE Series Proportional Valves

## Features

- Wide Supply Range +6V to +28V
- Power Supply and Control Input Protection
- High Current Valve Enable Output
- 300ms Ramp Rate on Control Signal Output
- Fault Detection



### DFA2-01 Configuration

DFA2 Connection	Parameter	Function	Operating Range			Unit
			Min	Typ	Max	
<b>Power Supply:</b>						
+12/24VDC	Supply Voltage		6	12, 24	28	V
+5VDC	Input Control Device Supply Voltage		4.75	5	5.25	V
GND	Common Ground	DFA Ground, Input Control Device Ground				
<b>Control Inputs:</b>			$V_{IN(MIN)}$		$V_{IN(MAX)}$	
IN1	Control Input 1	Analog Proportional Input 1	0.8 (+/-0.05)		4.2 (+/-0.05)	V
IN2	Control Input 2	Analog Proportional Input 2	0.8 (+/-0.05)		4.2 (+/-0.05)	V
<b>Control Outputs:</b>			$V_{OUT(MIN)}$	$V_{OUT(NEUTRAL)}$	$V_{OUT(MAX)}$	
OUT1	Control Output 1	Analog Proportional Output	25 (+/-5)	50 (+/- 2)	75 (+/-5)	%Vs
OUT2	Control Output 2	N/A				
<b>Enable Outputs:</b>			<b>Off</b>		<b>On</b>	
EN1	Valve Enable Output 1	Vs if either IN1 or IN2 is activated, 0V otherwise	0		+Vs	V
EN2	Valve Enable Output 2	N/A				

# Danfoss Adapter Driver Board DFA2-01

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**SURE GRIP™**  
CONTROLS INC.

## DFA-01 Electrical Specifications

Symbol	Parameter	Min	Typ	Max	Unit	Notes
<b>DFA Power Supply:</b>						
V <sub>S</sub>	Supply Voltage	6	12 or 24	28	V	Reverse Polarity and Transient Protected (*)
I <sub>SO</sub>	Quiescent Supply Current	25	27 or 30	35	mA	
<b>Input Control Device Power Supply:</b>						
V <sub>OUT</sub>	Input Control Device Supply Voltage	4.75	5	5.25	V	
I <sub>OUT</sub>	Input Control Device Supply current			30	mA	
<b>Control Signal Inputs:</b>						
V <sub>IN1,IN2</sub>	Control Signal Input Voltage	0.8 (+/-0.05)		4.2 (+/-0.05)	V	Inputs Transient Protected
V <sub>IL(OFF)</sub>	Low Safety Shut-down Input Voltage		<= 0.6		V	Input Under Voltage, Cycle Power to Reset
V <sub>IH(OFF)</sub>	High Safety Shut-down Input Voltage		>= 4.4		V	Input Over Voltage, Cycle Power to Reset
<b>Control Signal Output:</b>						
		Min	Neutral	Max		
V <sub>OUT1</sub>	Proportional Control Signal Output Voltage	25 (+/-5)	50 (+/- 2)	75 (+/- 5)	%V <sub>S</sub>	
I <sub>OUT1</sub>	Control Signal Output Current			10	mA	
<b>Enable Signal Output:</b>						
V <sub>EN1</sub>	Enable Signal Output Voltage	0	V <sub>S</sub>	V <sub>S</sub>	V	
I <sub>EN1</sub>	Enable Signal Output Current			2.5	A	
<b>Environmental Specifications:</b>						
	Operating Temperature Range		-40 to +70		°C	

(\*) Input transient protected up to +/- 48.4VDC @ 11.3A for pulse widths ≤ 1ms.