

Compact Power Amplifiers For 10Ω Series Control Valves

Compact power amplifiers for 10Ω proportional solenoids. The power supply is 24 V DC. It uses a new circuitry to be slow to heat.

Model Number Designation

AMN	-D	-10
Series Number	Type of Function	Design Number
AMN	D: DC Input Type	10



Specifications

Model No.	AMN-D-10
Description	AMN-D-10
Type of Function	DC Input Type
Max. Output Current	1 A (10Ω Solenoid)
Power Input (Max.)	+ 10 V DC
Input Impedance	10 kΩ
Max. Gain	1 A / 5 V
Dither	Variable
Temperature Drift (Max.)	0.2 mA / °C
Power Supply	24 V DC (20 - 30 V DC)
Max. Input Power	25 W
Ambient Temperature	0 - 50°C (32 - 122°F)
External Setting Resistance	1 kΩ
Approx. Mass	0.2 kg (.44 lbs.)

Applicable to Valve

Name of Valve	Model Numbers
Pilot Relief Valves	EDG-01*
Relief Valves	EBG-03 EBG-06 EBG-10
Relieving and Reducing Valves	ERBG-06 ERBG-10
10Ω Series Flow Control Valves	EFG-03/06 EFCG-03/06 (51 Design)
10Ω-10Ω Series High Flow Series Flow Control and Relief Valves	EFBG-03 EFBG-06 EFBG-10

AMN-D-10

[Example Diagram]

Setting Adjuster
MC-01
+12V
MIN
SPAN
1 kΩ
DITHER
Power Supply
Z SOL

DIMENSIONS IN MILLIMETRES (INCHES)

3.5(.14) Dia. Through 2 Places
YUKEN
MIN
SPAN
POWER
Indicator Lamp
Zero Adjuster
Span Adjuster
Terminal Board (Refer to table on the left.)

90(3.54)
100(3.94)
50 (1.97)
60 (2.36)
2.5 (.10)
30 (1.18)

● Detail of Terminal Board

Terminal Number	Name	
1	Power Supply	+24 V
2	Power Supply	0 V
3	Ground	G
4	Internal Power Supply	+12 V
5	Input Signal	IN
6	Input Signal	COM
7	Output to Valve	SOL
8	Solenoid	SOL