

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
3
1 2
8
Z SOL

DIMENSIONS IN MILLIMETRES (INCHES)

3.5(.14) Dia. Through 2 Places

Zero Adjuster

Span Adjuster

Terminal Board (Refer to table on the left.)

Indicator Lamp

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 |