

# 3-WAY SOLENOID VALVE

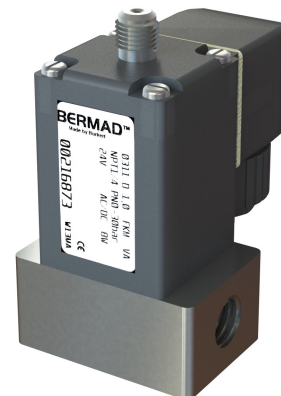
## Direct Acting – Plunger Actuated

### Model 311

This solenoid valve is direct acting 3-Way (can also be used as 2-Way) plunger actuated solenoid valve. It has a compact construction and is suitable for controlling BERMAD's hydraulic control valves using water or air. This solenoid valve does not require a minimum operating pressure and is not affected by the mounting position. Its construction also provides long life and durability. The epoxy encapsulation efficiently dissipates heat, to suit continuous duty applications.

#### Features

- Short response time
- Compact design
- Wide pressure range
- Normally Open or Closed versions



#### Technical Data

**Ports:** 1/4", 1/8" NPT

**General purpose:** IP 65 with DIN, cable plug

**Standard materials:**

**Body:** Stainless Steel 316

**Elastomers:** FPM (Viton®)

**Enclosure:** Molded epoxy

**Internals:** Stainless Steel

**Temperature:**

**Nominal ambient:** 0.5 to 55°C; 33 to 131°F<sup>(1)</sup>

**Maximum fluid:** 0 to 90°C; 32 to 194°F

**Electrical data:**

**Voltages:**<sup>(2)</sup>

(ac): 24, 110, 220 (50Hz)

(ac): 24, 120, 240 (60Hz)

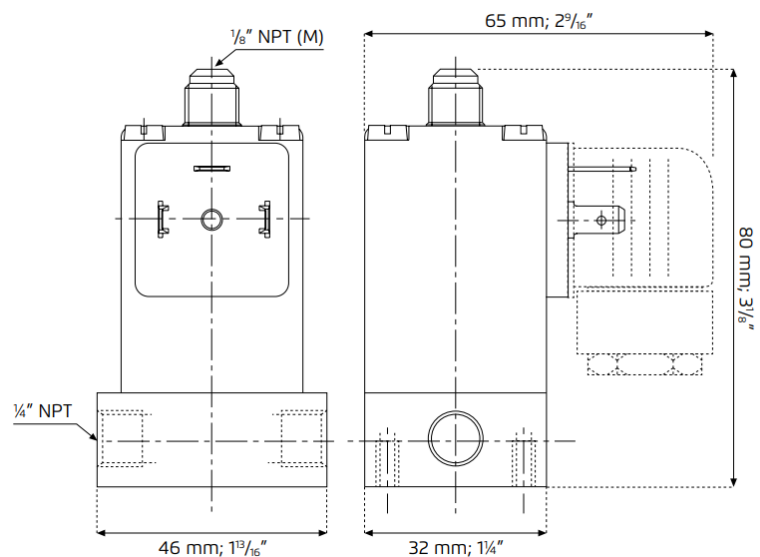
(dc): 24

**Tolerance:** ±10%

**Power consumption:**

(ac): 21 VA, inrush; 12 VA (8W), holding

(dc): 8W



#### Hydraulic data:

Orifice DN <sup>(2)</sup>	Pressure Range	
	Bar	psi
0.8	0–40	0–580
1.0	0–30	0–435

#### Notes:

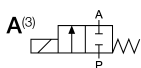
<sup>(1)</sup> Max. ambient temperature is determined under continuously energized conditions, and with max. fluid temperature.

<sup>(2)</sup> Required filtration – 500 micron.

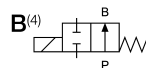
<sup>(3)</sup> 311A or 311C (R port is plugged)

<sup>(4)</sup> 311B or 311D (R port is plugged)

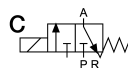
#### Circuit functions



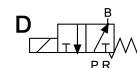
2-Way  
Normally Closed



2-Way  
Normally Open



3-Way  
Normally Closed



3-Way  
Normally Open



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