



# Series VS Pulsar® Pressure Control Valves

Effective: February 1, 2004  
Supersedes: Cat. No. PMF 1009 dated 12/97

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## Features

- Low current draw
- Wide control bandwidth
- Contamination tolerant
- No quiescent flow
- Long life, fast response, cartridge design
- Low hysteresis
- Color coded jacket and leads

## Specifications

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**Typical pilot flow:** 0.2-0.3 GPM @ 400 psi  
(0,8 - 1,1 LPM @ bar).

**Constant pilot pressure:** 100 to 400 psi range  
(7 to 28 bar).

**Operating temperature:** -40°F to +250°F  
(-40°C to +121°C).

**Viscosity range:** 1500 to 30 SUS (323 to 1,1 cSt).

**Weight:** 4.5 oz. (125 gm).

**Response – on time:** 5 ms.

**Response – off time:** 3 ms.

**Quiescent leakage:** 5 drops/minute @ 250 psi  
(17 bar).

**Filtration:** SAE Class 5 (ISO 17/14).

**Recovery pressure:** 75% of pilot.

**Control band:** 80% of MR.

**Standard and Marine Solenoids**

**Coil resistance @ 70°F (21°C):** 28.5 ohms  
@ 12V DC; 63.5 ohms @ 24V DC.

**Operating voltage range:** 12±3V DC; 24±3V DC.

**Current draw @ 70°F (21°C):** 420 mA @ 12V DC;  
380 mA @ 24V DC.

**PWM frequency:** 33Hz.

## Description

The Parker Series VS Single-Stage Pulsar® Valve is a high-speed, digital valve for variable pilot pressure control. It is used in the Parker Series VP/VPO and VPL products to provide the electrohydraulic interface.

**Intrinsically Approved Solenoids** (may require Parker Hannifin intrinsically approved drive card — consult factory).

**Coil resistance @ 70°F (21°C):** 28 ohms.

**Rated operating voltage:** 11.2V DC or 12V DC.

**Current draw @ 70°F (21°C):** 400 mA @ 11.2V DC;  
430 mA @ 12V DC.

**PWM frequency:** 33Hz.

### **Intrinsic Safety approvals**

1. **MSHA:** IA-14238-0/IA-627-0.

2. **CENELEC:** NEMKO 90.114;

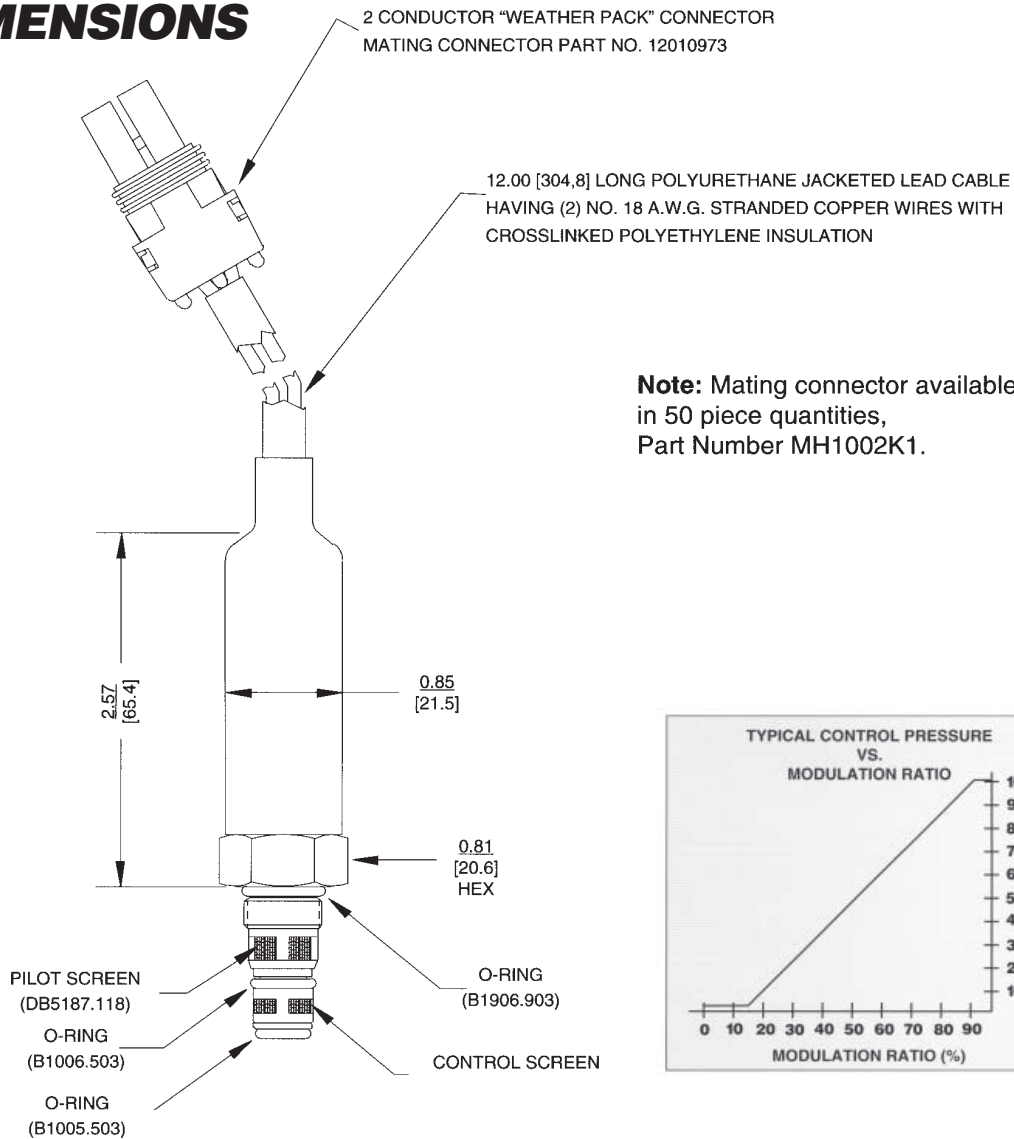
EEX Ib IIA, T4, I<sub>max</sub>=300 mA, 12V DC,  
L<sub>eq</sub>=2.25 mH, C<sub>eq</sub>=0;

EEX Ib IIA, T4, I<sub>max</sub>=250 mA, 9V DC,  
L<sub>eq</sub>=2.25 mH, C<sub>eq</sub>=0.

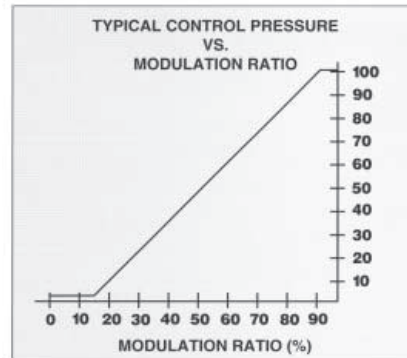
3. **NEMKO:** 90.277X; EEX m II T4.

**CSA:** Group 1 Division 1 Group C and D.

# DIMENSIONS



**Note:** Mating connector available in 50 piece quantities, Part Number MH1002K1.



DIMENSIONS ARE IN INCHES (MILLIMETERS) AND ARE FOR REFERENCE ONLY.

NOTE: Consistent with our policy of continuing product improvement, we reserve the right to change this information without notice or obligation.

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