

Bulletin 2537-M3/USA Service Bulletin Series FM

Effective:April 1, 2000Supersedes:November 11, 1996





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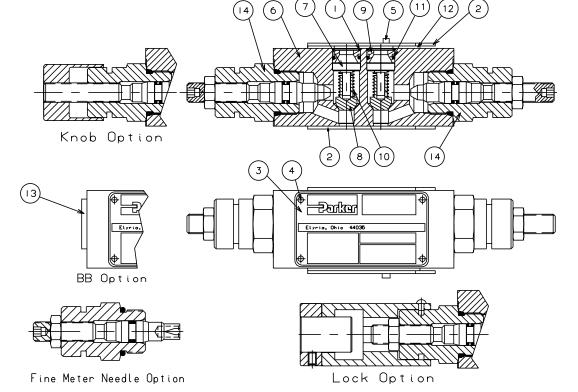
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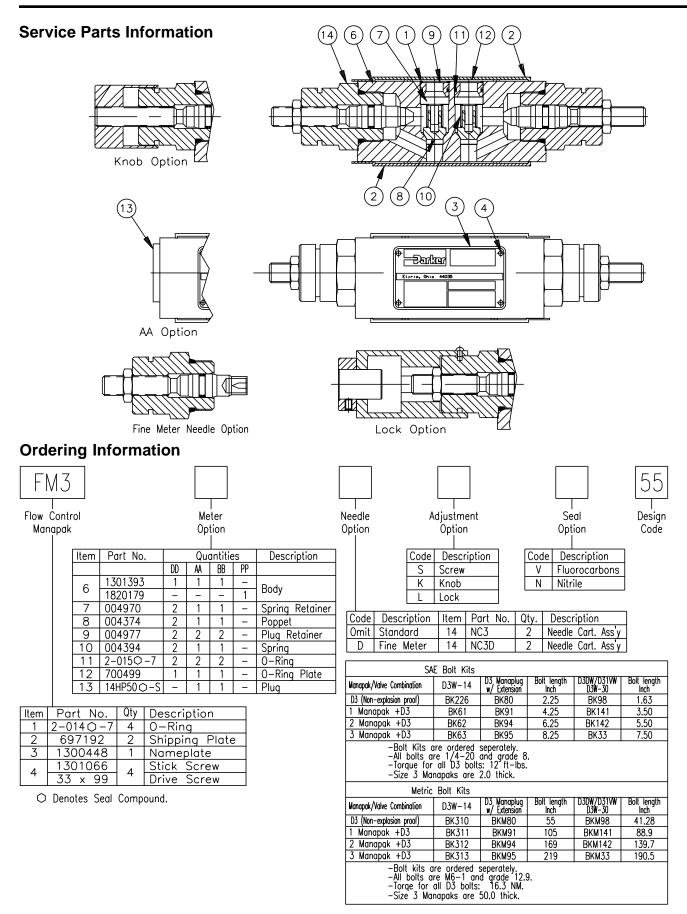
#### **Service Parts Information**



### **Ordering Information**

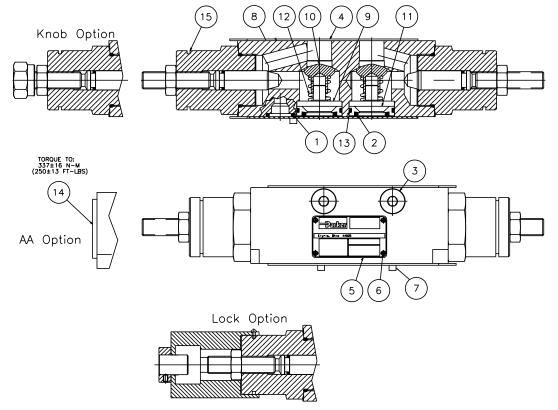
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Flow Control Manapak		Meter Option					Needle Option		Adjustment Option			Seal Option		Design Code
	Item	Part No.	Q DD A	uantit BB	PP	Description			S So	l Description Crew		Code Descripti V Fluorocar		]
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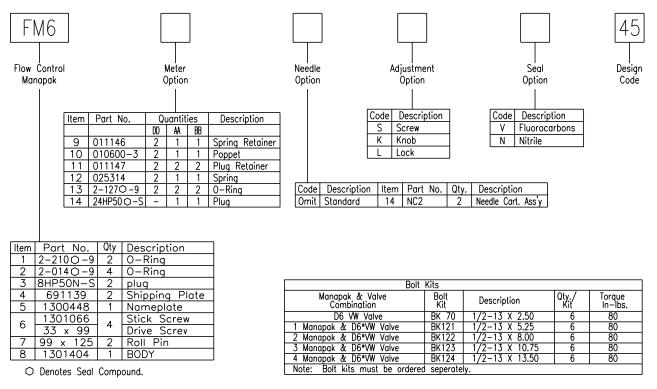


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## **Service Parts Information**



### **Ordering Information**



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# Operation

The function of a flow control valve is to control the rate of fluid flow in its leg of the circuit. It performs its function by being a higher than normal adjustable restriction for the system. In the control flow direction, a check valve forces the flow through a variable orifice needle valve. The standard needle provides fine adjustment for the first three turns and coarse adjustment for the last three turns. In the free flow direction, an increase in pressure, overcoming the pressure of the spring, will open up the check allowing flow through the check and the variable orifice. This allows for high flow at a low pressure drop. Option fine and microfine needle are available providing finer control. However, use of these options will also decrease maximum flow capability through the valve.

Trouble-Shooting						
Symptom	Cause	Solution				
Improper flow rate	Needle valve	Readjust needle valve.				
	adjustment incorrect					
	Restrictions in valve	Disassemble and flush system.				
	passages or orifice areas					
	Valve installed backwards	Reverse connection.				
	Broken spring	Replace spring.				

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