

FLOW CONTROL MANIFOLDS

Description

When two or more day tanks are being filled by one set of transfer pumps, a flow control manifold is required to direct oil only to the day tanks calling for fuel.

Factory Assembled Flow Control Manifolds Are:

- Pre-assembled in Preferred's factory
- Factory prepped and painted
- Pre-wired to a NEMA 12 junction box
- Pressure tested to 50 PSIG



Model FCM-15-S2-0-0-0-0 Flow Control Manifold

NFPA codes do not dictate the components of a flow control manifold. Preferred flow control manifolds always consist of an automatic shutoff valve, two manual shutoff valves, and a manual bypass valve. Additional components may be supplied depending on the application.

- Manual shutoff valves are required to isolate a day tank for maintenance or other reasons. A manual bypass valve is provided to ensure a day tank can be filled manually if a shutoff valve fails closed.
- One or two solenoid valves are most common. However, motorized valves are sometimes used and provide the benefit of valve proof-of-closure and valve proof-of-open switches.

- A strainer is recommended to protect the shutoff valves and optional flow meter.
- A sight flow indicator helps technicians and operators determine when oil is flowing into a day tank.
- A flow restrictor is used when a large number of day tanks are connected to one pump set. The flow restrictor allows the return pump to be sized according to the flow restrictor flow rather than the supply pump flow.
- A flow meter can be used to remotely determine when oil is flowing to a particular day tank, and can be used to totalize flow to a day tank.

Flow Control Manifold Description		Catalog Number					
		FCM - _ - _ - _ - _ - _					
Manifold Pipe Size	3/4" NPT 1" NPT 1.5" NPT 2" NPT		75 10 15 20				
Shutoff Valves	One Solenoid Valve Two Solenoid Valves One Motorized Valve Two Motorized Valves			S1 S2 M1 M2			
Strainer Option	No Strainer Simplex Strainer				0 S		
Sight Flow Indicator Option	No Sight Flow Indicator Sight Flow Indicator					0 FI	
Flow Restrictor Option	0= No Flow Restrictor XXX= Flow Restrictor GPM						0 XXX
Flow Meter Option	No Flow Meter Flow Meter						0 FM

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Suggested Specifications

1. Application

Provide and install for each day tank a factory assembled flow control manifold consisting of two 120 VAC solenoid valves, two manual shutoff and isolation valves, manual bypass valve, 40 mesh strainer, sight flow indicator, and flow restrictor sized for ___ GPM. The flow control manifold shall be factory assembled, painted, and fully wired into a NEMA 12 junction box. The entire assembly shall be pressure tested to 50 PSIG. The flow control manifold shall be Preferred Utilities Mfg Corp., Danbury, CT, Model FCM - _ - _ - _ - _ - _ - _ .