

SERIES "6AF" PFA/PTFE FLOW METER OPERATING INSTRUCTIONS

GENERAL INFORMATION

Inspect instrument for possible visible damage resulting from shipping. Notify UPS or other carrier as well as the seller of the flow meter of any claims.

Flow meters always must be installed in a vertical position, any significant deviation from vertical will affect the readings.

Valves should be closed before installation and opened gradually after all connections are carefully inspected. A leak test is highly recommended especially when hazardous fluids are involved.

CAUTION: Excessive tightening of valves may damage the orifice.

It is important that all lines to be connected to the flow meter are purged of any dust or other residual contamination prior to installing the meter. In some applications an additional filter should be installed at the inlet of the flow meter.

Before installing, open the valve of the flow meter and check to make sure that the float or floats are moving freely in the flow tube. This is best done by slowly tilting the flow meter from horizontal to vertical while observing if the float is moving freely.

All meters are thoroughly inspected at the factory prior to shipping and are sealed in polyethylene bags to prevent dirt from entering into the flow passages. Certain small bore flow tubes have a clearance between the float and the inside walls of the flow tube of only a few ten thousandths of an inch. In some cases these flow tubes are found to have floats that are sluggish or not moving due to condensation resulting from temperature changes during shipping.

It is advisable to blow a dry clean gas through the meter to free float.

SAFETY INFORMATION

Never operate the flowmeter without the safety shield in place.

Series "6AF" PFA/PTFE flow meters are designed to be operated at pres-

ures not exceeding 100 psig (6.7 bars), or temperatures not exceeding 250 degrees F (121deg.C).

All meters are factory tested for leakage prior to shipping. For hazardous fluids the flow meter must be re-tested at the time of installation in the system, prior to usage.

Flow meters must be protected from breakage due to external conditions such as objects bumping into or hitting the instrument or extreme vibrations. The selection of material of construction, and its suitability for use, is the responsibility of the customer. The manufacture accepts no liability.

It is the responsibility of the customer to acquaint the operator(s) of this flow meter with all appropriate safety information.

VALVE ALIGNMENT

The built-in needle valve will be positioned at the outlet of the flow meter.

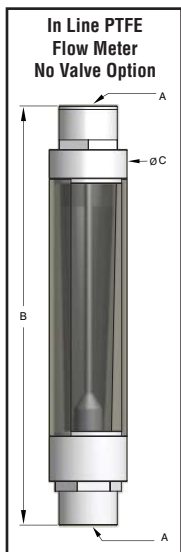
OPERATING INSTRUCTIONS

Close valve (if applicable) before initial use, then pressurize the system.

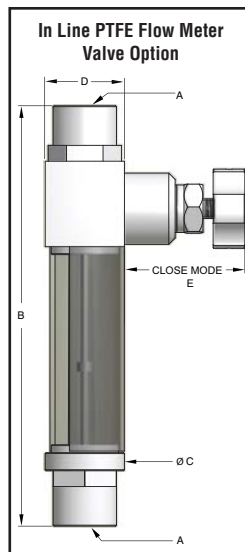
Slowly open the valve until the float is at the desired flow rate. Flow reading instructions can be found on the calibration data sheet supplied with the meter.

MAINTENANCE

Under normal operating conditions no special maintenance is required. Dirt or contamination may create problems within the flow tube by causing a restriction in the flow passage. Such conditions can be diagnosed by examining the flow tube. The most obvious indication of obstruction is the float being stuck in the flow tube. If the existence of the contamination is determined the condition may be rectified in a number of ways. The easiest being (if possible) is to disconnect the inlet and the outlet of the flow meter and purge the instrument by using a clean and dry stream of gas. The action of the float within the bore of the flow tube very often causes particles to be dislodged through the outlet of the flow meter.



6AF STYLE IN LINE PTFE FLOW METER DIMENSIONS NO VALVE OPTION				
MODEL	A	B	C	D
6AF8101FN	1/4 FNPT	5.52" (140.2 mm)	1.25" (31.8 mm)	1.25" (31.8 mm)
6AF8102FN				
6AF8103FN				
6AF8104FN				
6AF8105FN				
6AF8106FN	3/8 FNPT	5.52" (140.2 mm)	1.25" (31.8 mm)	1.25" (31.8 mm)
6AF8107FN				
6AF8108FN				
6AF8109FN				
6AF8120FN	1/2 FNPT	10.81" (274.6 mm)	2.00" (50.8 mm)	2.00" (50.8 mm)
6AF8121FN				
6AF8122FN				
6AF8123FN	3/4 FNPT	10.81" (274.6 mm)	2.00" (50.8 mm)	2.00" (50.8 mm)
6AF8124FN				



6AF STYLE IN LINE PTFE FLOW METER DIMENSIONS VALVE OPTION					
MODEL	A	B	C	D	E
6AF8101FV	1/4 FNPT	5.52" (140.2 mm)	1.25" (31.8 mm)	1.25" (31.8 mm)	1.88" (47.8 mm)
6AF8102FV					
6AF8103FV					
6AF8104FV					
6AF8105FV					
6AF8106FV	3/8 FNPT	5.52" (140.2 mm)	1.25" (31.8 mm)	1.25" (31.8 mm)	1.88" (47.8 mm)
6AF8107FV					
6AF8108FV					
6AF8109FV					
6AF8120FV	1/2 FNPT	10.81" (274.6 mm)	2.00" (50.8 mm)	2.00" (50.8 mm)	1.88" (47.8 mm)
6AF8121FV					
6AF8122FV					
6AF8123FV	3/4 FNPT	10.81" (274.6 mm)	2.00" (50.8 mm)	2.00" (50.8 mm)	1.88" (47.8 mm)
6AF8124FV					



Toll Free USA and Canada: 1 (800) 879-7713 ● Tel. 1+(845) 770-3200 ● Fax. 1+(845) 770-3210
 Website: <http://dakotainstruments.com> ● E-mail: info@dakotainstruments.com