MPL 43 – DIFFUSIVE FLOW TEST - FLUOROFIL

Pre-Wetting:

It is imperative that the Fluorofil cartridge is thoroughly wetted with a solution of 60% iso propyl alcohol (IPA) and 40% water before carrying out the diffusion test. To achieve thorough wetting follow pre-wetting procedure described in MLP16.

Procedure:

1. Wet 'O' rings with water and install **Fluorofil** Cartridge in the housing.

2. With the wetted Cartridge positioned in the housing, connect housing inlet to a regulated source of clean compressed air (or other test gas such as nitrogen), and connect housing outlet to a suitable piece of flexible tube, extending into a inverted calibrated burette over a water trough partially filled with water (see fig 1).

3. Open gas valve slowly so as to pressurise filter assembly to 300mbar, hold pressure for 30 seconds to allow excess test solution to drain.

4. Continue to increase the gas pressure slowly until the required test value is. reached.

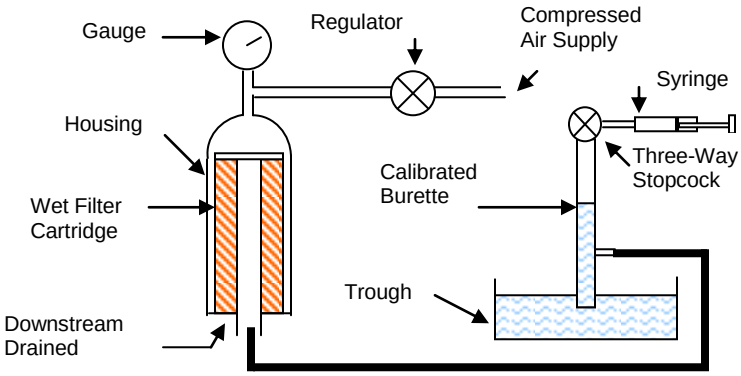

fig 1

5. Measure flow rate (ml/min) of diffusing gas after flow has stabilised for 5 Minutes.

7. Maximum acceptable diffusive flow rates for **Fluorofil** cartridges are:

Company registered in Dublin No.102006. Vat reg No. IE4739788E. Hall Pyke Ltd 3a Sunbury ind est, Ballymount Road, Dublin 12, Ireland. Info@hallpyke.ie : www.hallpyke.ie :

PRODUCT CODE	PORE SIZE RATING	TEST PRESSURE		MAXIMUM DIFFUSION
	µm	mbar	psi	ml/min
F10	0.1	1300	19	10
F20	0.2	800	12	10
F45	0.45	400	6	10

8. Maximum Permissible Diffusion Values:

110mm (4”)	Cartridge	-	4.4ml/min
125mm (5”)	Cartridge	-	5.0ml/min
250mm (10”)	Cartridge	-	10.0ml/min
500mm (20”)	Cartridge	-	20.0ml/min
750mm (30”)	Cartridge	-	30.0ml/min
1000mm (40”)	Cartridge	-	40.0ml/min

Note:

Most integrity test failures are due to incomplete wetting of the filter cartridge rather than a defect in the filter membrane itself. Therefore, if a failure occurs, re-wet the cartridge and repeat test.

Company registered in Dublin No.102006. Vat reg No. IE4739788E. Hall Pyke Ltd 3a Sunbury ind est, Ballymount Road, Dublin 12, Ireland. Info@hallpyke.ie : www.hallpyke.ie :