

# Vacuum Test Results

BFM Global undertook testing to determine the time it would take for a BFM fitting, under vacuum, to drop pressure from 500mm W.G to 400mm W.G, and compare this with a standard clamp-style connector.

## EXPERIMENTAL PLAN & METHOD:

The tests were conducted on two different types of connectors:

1. A standard style 100mm long connector and hose clamp of 500mm diameter
2. A BFM® connector (100mm long) with a 500mm diameter

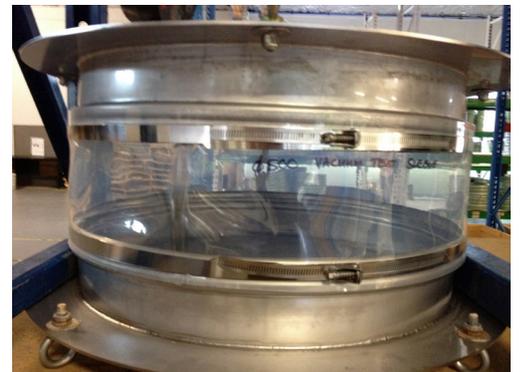
The system was placed under negative pressure, pictures were taken and the times and pressures were recorded as pressure reduced to document the results.

A total of six tests were carried out.

Three tests (Tests 1 -3) were conducted on a standard connector that was hose clamped onto the outside of the spigot. All care was taken to ensure that these connectors were clamped as tightly and securely as possible.

The connectors were also measured and manufactured to a perfect size, making for perfect conditions, something that would be extremely rare in a workplace situation.

The BFM® connectors were standard fittings seated inside a BFM® spigot.



## RESULTS:

The testing showed that clamped connectors were far inferior to the BFM® fitting which did not lose any pressure in a 10 minute period (the test was stopped at the 10 minute mark).

As you can see from the table below, the clamped connectors (Tests 1 – 3) lost their pressure in between 1.5 and 2.5 minutes. These connectors were fitted perfectly and clamped with extreme care, so these results are the best that you could expect from a clamped connector situation.

	NOTES	HOSE CLAMP CONNECTOR		BFM SEEFLEX 040E	
		TIME	PRESSURE CHANGE (mmW.G)	TIME	PRESSURE CHANGE (mmW.G)
TEST 1	Clamp tightened normally	1.54 min	500 - 400		
TEST 2	Clamp tightened normally	1.43 min	500 - 400		
TEST 3	Clamp tightened very hard	2.47 min	500 - 400		
TEST 4				10 min +	0 ± 1
TEST 5				10 min +	0 ± 1
TEST 6				10 min +	0 ± 1

### NOTE ON EXPERIMENT CONDITIONS:

When conducting these tests BFM® Global has used standard product and taken all measures possible to ensure the results are a true indication of actual installations.

Please contact us for more information on tests carried out on other diameter connectors.