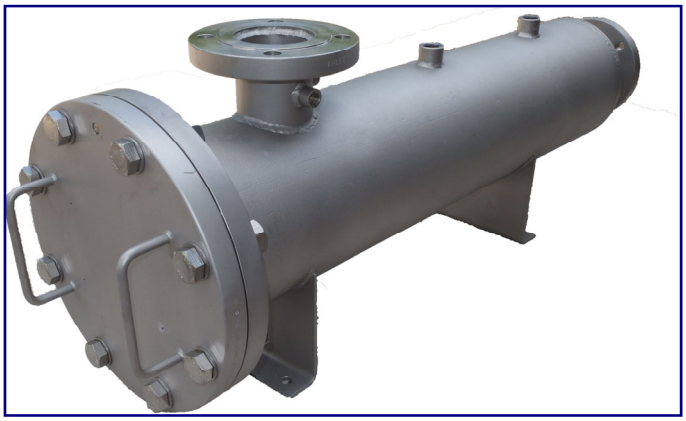
Aljac / MEMBER OF THE ELAFLEX GROUP

# MULTI PURPOSE FILTER VESSEL

- FLOW RATES UP TO 500 LITRES PER MINUTE
- STANDARD VESSEL DESIGN TO KEEP COSTS LOW
- STAINLESS STEEL CONSTRUCTION
- HORIZONTAL DESIGN WITH EASY ACCESS FOR ELEMENT CHANGE
- EASY INSTALLATION
- AVAILABLE IN STOCK



## Introduction

Many fluid handling systems require dirt or water removal from the process stream. At low flow rates, below approximately 200 Litres/Minute, small mass produced filter vessels are used. Large flow rates, typically above 1000 Litres/Minute, are dealt with by fabricating pressure vessels to order. However, these vessels are very expensive because they are designed and built in small quantities for specific applications. Until now there has been no sensibly priced filter vessel between the two extremes.

A typical application is aircraft refuelling. In this industry dirt and water levels must be kept very low, and filtration is specified by the fuel suppliers using internationally recognised standards. The mass produced vessels are ideal for refuelling small aircraft from kerbside pumps, but are totally inadequate for refuelling larger aircraft, or for road tanker offloading or fueller loading.

We set out to design a low cost filter vessel to fill this gap in the market, and the result is our Horizontal Multi Purpose Filter (HMPF). It is aimed at into aircraft refuelling, road tanker offloading, and fueller loading at flow rates up to 500 Litres/ Minute, which is typical for a small to medium sized airport fuel depot.

## General Description

The HMPF is a horizontal Stainless Steel filter vessel designed to accept 6” outside diameter by 3.1/2” inside diameter cylindrical microfilter elements. Our vessel has been designed from the outset with cost as one of the primary considerations, but we have incorporated high quality materials and workmanship within the vessel. Further cost reductions were achieved because we build the vessels in batches, to a standard design, and for stock.

## How To Order

Suitable for use with 1 off 28” long EI qualified microfilter element.
Element not included in the basic part number but can be supplied with the vessel.
**Part Number: HMPF1-UK12M**

## Options

Stainless Steel pressure relief valve, automatic air eliminator, piston type differential pressure gauge, drain line with ball valve and Kamlok dust cap, contaminant test point (specify exact type required).

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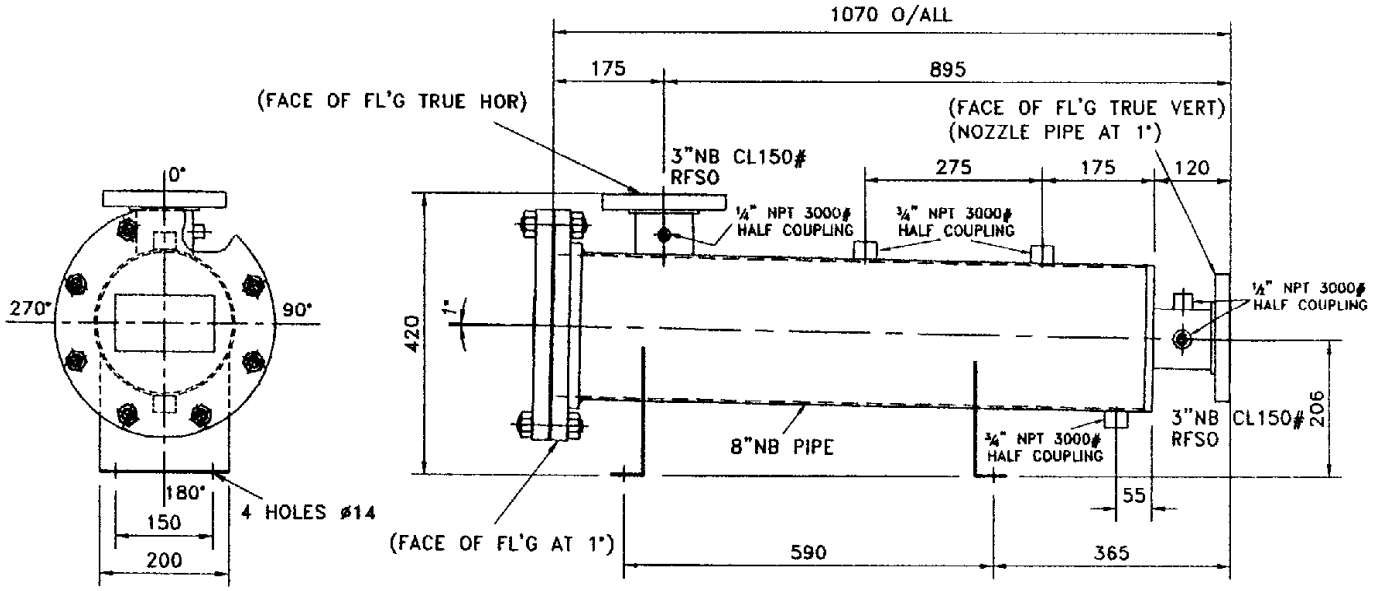
## General Arrangement Drawing




## Detailed Specification

**Vessel Type:** Horizontal configuration with integral support feet, bolted end cover.
**Working Pressure:** 12.0 Bar.
**Test Pressure:** 16.3 Bar.
**Maximum Working Flow Rate:** 500 Litres/Minute.
**Working Temperature:** -15°C to +60°C.
**Elements Fitted:** 1 off 6 inch diameter by 28 inch long EI qualified microfilter.
**Design/Construction Code:** BS PD:5500 Cat. 3.
**Material of Construction:** Type 304 Stainless Steel.
**Finish:** External surfaces self colour with heat marks removed, internal surfaces bead blasted, all sharp edges removed.
**Inlet and Outlet Connections:** Flanged 3 inch ANSI B16.5 150lb raised face.
**Ancillary Connections:** 3/4 inch NPT threaded air vent, pressure relief and low point drain connections, 1/4 inch NPT and 1/2 inch NPT female threaded differential pressure gauge connections, 1/2 inch NPT female threaded line sample connection.
**End Cover Seal:** 7mm diameter Nitrile O ring.

## Shipping Weights and Dimensions

**Nett weight:** Approximately 80 kg (dry with no elements).
**Overall Length:** 110 cm.
**Overall Width:** 35 cm.
**Overall Height:** 42 cm.