



“TK” & “FCF” CARTRIDGE FILTER HOUSINGS

The range of metal cartridge filter housings comprises a mix of imported housings (“TK” range) and South African manufactured housings (“FCF” range) to cater for cartridges from a single 250mm standard cartridge to as many as 51 x 1000mm standard cartridges in one housing. Imported housings are relatively low in cost but are not flexible in terms of design – any requirement which falls outside the design of the stock imported units is catered for from the locally made range. Locally made housings can be tailored to suit almost any application. Purpose-designed housings for various cartridges such as pleated, washable “Jumbo” cartridges, Hi-Flow and large-bore cartridges, semi-sanitary cartridge housings etc. are also available from local design and manufacture in various materials and pressure ratings.

Operating Pressure

Low pressure units are suitable for 750 kPa operating pressure and are tested to 1000 kPa. High Pressure units are suitable for 1000 kPa operating pressure, and are tested to 1250 kPa. By special design, operating pressures as high as 4000 kPa can also be accommodated in locally made housings.

Materials of Construction

Imported housings are of all-304 stainless steel material. Standard material for the locally made “FCF” range is also 304 stainless steel, but carbon steel, 316 stainless steel or specialised exotic metals. Imported housings have an electro-polish finish. Locally made carbon steel units are supplied primed internally, and with primer and two coats of enamel painting externally, and stainless steel units are supplied in glass bead blast, matt industrial finish. In all cases, the internal cartridge support components are in 304 stainless steel.

Cover Securing Mechanism

Imported “TK” housings have a single, quick-release clamp to secure the cover. Low pressure “FCF” housings are supplied with GripNuts closures. The GripNuts allow for manual loosening and tightening of the closures quickly and safely, without the need for tools, to permit easy access to the filter cartridges. High Pressure “FCF” housings are supplied with swing bolt closures.

Connections

Imported “TK” housings have 2” BSP female threaded inlet & outlet ports. The “FCF” range of cartridge housings can be ordered with various inlet and outlet connections, most commonly 50mm BSP male threaded or table 1000/3 flanges in sizes 50, 80, 100mm or 150mm nominal bore. To special order, almost any commercially available type of flange or connector can be supplied. All housings are automatically supplied with 1 x vent and 2 x drain/gauge ports (all plugged sockets).

Filter Cartridges

Both the imported “TK” range and the locally-made “FCF” range of cartridge housings accept, as standard, double open-ended filter cartridges of standard dimensions (+/-65mm OD x +/-28mm ID x 250/500/750 or 1000mm length). Specially-designed “FCF” housings can be manufactured to accept any commercially available cartridge dimension and/or end configuration.

Ordering information

‘TK’ Example

30	Height of the filter stacks inches 10=10” 20=20” 30=30” 40=40”
7	No. of filter stacks in the housing
TK3	Imported Cartridge filter housing

‘FCF’ Example

50F	50S = 2” BSP male thread 50F = 50mm flanged 1000/3 80F = 80mm flanged 1000/3 100F = 100mm flanged 1000/3 150F = 150mm flanged 1000/3
B	A = carbon steel B = 304 SS C = 316 SS
H	S = 750 kPa rated H = 1000 kPa rated
3	Height of the filter stacks - 1=10” 2=20” 3=30” 4=40”
5	No. of filter stacks in the housing
FCF	Flow Clear Cartridge Housing