

SPEC SHEET - TP1 HYDRAULIC / TRANSMISSION OIL BY-PASS FILTER



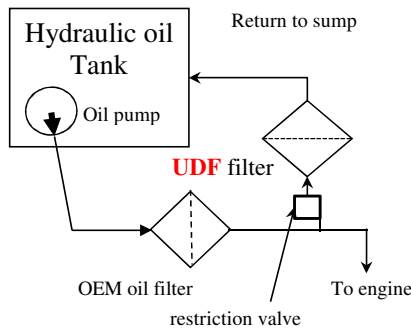
General

All filters Q.A. pressure tested to	1000 kPa
Maximum operating temperature	95°C
Standard port size	1/2" ORB
Number of inlet ports	1
Number of outlet ports	1

Dimensions

Height	250mm
Width	130mm
Depth	150mm
Fitting clearance required - sides	70mm
Fitting clearance required - top	20mm
Fitting clearance required - bottom	80mm

Installation sequence



Service intervals

UDF filters are sized to give a service life that coincides with the service interval of the vehicles on to which they are fitted. Do not extend the filter cartridge life beyond that of the standard filter service interval as combustion by-products (sludge) can block the cartridge and stop the oil flowing and thus reducing filtering efficiency.

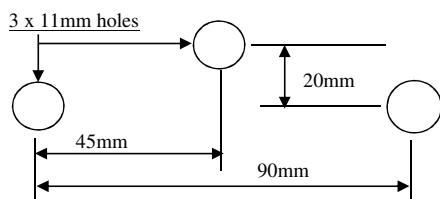
UDF engine oil filters should always be used in conjunction with UDF fuel filters for best results.

Always use oil analysis when extending engine oil life.

Replacement parts

Filter element - part #	PR 102
Bowl seal - part #	P 1008
Cartridge sealing "O" ring - part #	P 1007

Mounting hole configuration



Beta ratios

UDF filters are dual windings of polyester and cellulose fibre sheets and act to sieve out and absorb contaminants in four different ways. They are not designed as full flow filters and are fitted as additional filters in a by-pass configuration removing 3% of the total oil flow through a restriction orifice. This oil is filtered and returned to the engine crankcase on a continuous basis. UDF filters remove more than 98% of all particles > 0.5 microns that pass straight through the standard OEM filters and can thus be rated as $\beta(1) = 9$ (minimum)

Oil flow rate for TP filters at a Δp of 350 kPa at 40 c

ISO viscosity grade	Flow rate lt/min		
	TP 1	TP 2	TP 3
10 cSt	4.5	9	13.5
16 cSt	3.8	7.6	11.4
22 cSt	2.8	5.6	8.4
32 cSt	2.5	5	7.5
46 cSt	2	4	6
64 cSt	1.6	3.2	4.8
100 cSt	1.2	2.4	3.6
120 cSt	1.1	2.2	3.3

Filter sizes for sump capacity

10 to 40 litres	TP 1
40 to 80 litres	TP 2
80 to 160 litres	TP 3
Above 160 litres	Contact UDF

*Clean oil - saves money
- reduces emissions
- improves performance*