

COMMISSIONING INSTRUCTIONS FOR 7 SERIES RE-OILING PUMPS

ASSEMBLY

Risbridger Re-oiling pumps are now supplied fully assembled apart from the hose. Complete the assembly by fitting the hose to the pump – taking care not to over-tighten the brass swivel nut on the hose end.

OPERATION

First check that the fluid specification and brand is compatible with the pump and aircraft system. Offer the unopened can of oil up to the underside of the pump flange washer and support the can underneath with the stability base. Locate and latch the toggle straps to clamp the can between the pump flange and stability base.

Strike the can opener knob firmly with the palm of the hand to drive the hardened steel cutter tip easily through the can top.

(Note: be aware that the litre can opener /suction pipe is slightly longer than the quart one and may cause a hole in the end of can if used with a quart can. Using a quart pump with litre cans will only prevent you from dispensing all of the fluid in the can).

Next, release the air bleed screw, by one turn only, on the sight glass / bleed valve assembly and carefully pump the pump to prime and eliminate any entrained air.

(Note: Sight glass/bleed valve assemblies are **not** fitted to Skydrol or Phosphate Ester pumps).

IMPORTANT – REMEMBER THAT AIR PUMPED IN WITH THE OIL MAY CAUSE FALSE LEVEL READINGS IN AIRCRAFT SYSTEMS, AS THE AIR EVENTUALLY BUBBLES OFF AND FLUID LEVEL DROPS.

The pump is now ready for connection and use on the aircraft. Use full steady pumping strokes during replenishing and stop pumping oil when the can is empty or air can be seen in the clear plastic hose or sight glass. Re-prime the pump each time a new can of oil is fitted to it.

During storage it is advisable to keep part full or empty cans clipped to the pump to help prevent contamination and mess from spilled oil.

SERVICING

FILTER CHANGING

Stock code 1600FILTER (1600/S for Skydrol or Phosphate Ester pumps).

The filter element – is a 'throw away' item and no attempt should be made to back-flush or clean these elements.

The frequency of filter change depends on operating conditions. Generally changes should be made every six to nine months or if more than normal resistance is felt during the pumping strokes.

SEAL CHANGES

The moving piston seal is normally the first to wear. This is usually indicated by leakage of fluid past the piston. When changing the piston seal, the whole pump set should be changed using the seal kits available.

SPARES

Please see the spares lists for details. These are available on request.

DISPOSABLE '1600 SERIES' FILTER ELEMENTS

FILTRATION STANDARDS

The high quality 1600 filter element has a rating of $\beta_{200} = 4.6$ microns, in accordance with ISO 16889:2008 (replacing ISO4572:1981). This allows dispensing of fluid to a cleanliness level of 17/15/12, in accordance with ISO 4406:1999, or NAS 1638 Class 6.

The changes introduced in the new standard ISO16889:2008 include replacement of the test dust used in calibrating the automatic particle counter. A summary of the changes is available on our website.

FILTER LIFE

Filter elements should be changed every six to nine months or sooner if more than normal resistance is experienced during pumping.

Under no circumstances should attempts be made to clean or back flush elements. Never use a pump without a filter.*

The shelf life of the filter is five years.

SPARE ELEMENT STOCK CODES

Stock Code 1600FILTER Use for engine oils, mineral hydraulic fluids, FC75, 'Sternol', 'Flutec PP3' & 'Coolanol 25R'. Replaces old Stock Code 1600/V and Stock Code UZ1600.

Stock Code 1600/S Use for Phosphate Esters e.g. Skydrol/Hyjet. Replaces old Stock Code UZ1600/S

* 'NO-FILTER/NO-FLOW' SHUT-OFF TAILPIECES

Latest pumps are now fitted with a shut-off type tailpiece which provides a 'No filter / No-flow' feature. Older pumps can be converted to this system by replacing the filter housing / tailpiece assembly using the following spares kits which also include a modified anti-block washer to ensure correct operation after conversion:-

Stock Code 786/7 Filter Housing and Shut off tailpiece 3/8" BSP. For re-oiling pumps for Engine oils, mineral hydraulic fluids, FC75, 'Sternol', 'Flutec PP3' & 'Coolanol 25R'.

Stock Code UZ/S/09 Filter Housing and Shut off tailpiece 1/4" BSP. For re-oiling pumps for Phosphate Esters e.g. Skydrol/Hyjet.

N.B.

All current pumps standardise on a 1/2" dia. tailpiece spigot (1600 series filter elements). Pumps having older 3/8" dia. tailpiece spigots either require alternative element types or are obsolete (NB. a pump repair/conversion service exists - contact sales for details.)