

1 Air Pump Suction Valve

1. Remove hose to separator (D30).
2. Remove bolts, nuts and washers retaining pump body halves (D03 and D06).
3. Lift off outer pump body (D03) to reveal valve assembly on underside.
4. Remove screw (D26) together with valve clamp (D09) and valve rubber (D08).

Refitting

Refitting is the reverse of the removal procedure, with the following notes:

1. Inspect valve rubber (D08) and replace if necessary.
2. When refitting outer pump body (D03), pull down evenly ensuring actuator seal (D05) is correctly located, pump inner body (D06).

2 Actuator Suction Valve

1. Remove outer pump body (D03) as section 1.
2. Remove actuator retaining bolt (D24) with Belleville washer (D25).
3. Prise actuator seal (D05) away from inner pump body (D06).
4. Remove actuator (D04) complete with seal (D05) from drive rod (C01), ensuring neck seal (D07) is not disturbed.
5. Invert actuator (D04) to reveal suction valve, which may be serviced as section 1.

Refitting

Refitting is the reverse of the removal procedure, with the following notes:

1. Examine upper surface of neck seal (D07), and replace if necessary. See section 5.

2. Lubricate outer surface of actuator seal (D05) with soft soap (do not oil or grease).
3. Position actuator assembly onto drive rod (C01).
4. Fit Belleville washer (D25) with domed side uppermost, and retain with bolt (D24). Tighten to a torque of 42 lbf-ft (31 Kgf-m).
5. Ensure outside surface of actuator seal (D05) fully locates in inner pump body (D06).

3 Actuator Seal

1. Remove outer pump body as section 1.
2. Remove actuator assembly as section 2.
3. Prise actuator seal (D05) away from actuator (D04).

Refitting

Refitting is the reverse of the removal procedure, with the following notes:

1. Examine actuator seal (D05) and replace if necessary.
2. Lubricate inner surface of actuator seal with soft soap (do not oil or grease).
3. Fit actuator seal to actuator (D04), ensuring taper on outer surface matches taper on air

4 Air Pump Discharge Valve

1. Remove outer pump body as section 1.
2. Remove actuator assembly as section 2.
3. Remove capscrew (D27) and washers (D28).
4. Note orientation of discharge elbow (D01) on inner pump body (D06).
5. Lift off inner pump body (D06).
6. Remove nuts (D18) and washers (D19), and remove discharge elbow (D01) to reveal discharge valve assembly.
7. Discharge valve assembly can be serviced as section 1.

Refitting

Refitting is the reverse of the removal procedure, with the following notes:

1. Ensure inner pump body (D06) is replaced with discharge elbow (D01) in the correct orientation.

5 Actuator Neck Seal

1. Remove outer pump body as section 1.
2. Remove actuator assembly as section 2.
3. Remove inner pump body as section 4.
4. Prise neck seal (D07) from housing (D14).

Refitting

Refitting is the reverse of the removal procedure, with the following notes:

1. Inspect neck seal and replace if necessary. It should be noted that over long periods of use, these seals may develop cracks around the inner neck diameter. When these have grown to half to three quarters of the original thickness, the seals should be replaced. Radial cracks in the seals can be ignored.

D75, D80, D100, H80 - 4.25 l/s air pump

Kit part number 0800139000 contains the following items:

0008021100	Air Pump Valve	3
0008024000	Actuator Neck Seal	1
0008023000	Actuator Seal	1
9030100359	Belville Washer	1
9005100352	Hex Socket Capscrew M10x35 (Nylon Insert 'Wedglok')	5

Kit part number 750014000 contains the following items:

0008021100	Air Pump Valve	3
9001040-01	Hex Socket Capscrew M10x25 (Nylon Insert 'Wedglok')	4
0008024000	Actuator Neck Seal	1
0008023000	Actuator Seal	1
9030100359	Belville Washer	1
9005100352	Hex Socket Capscrew M10x35 (Nylon Insert 'Wedglok')	1

