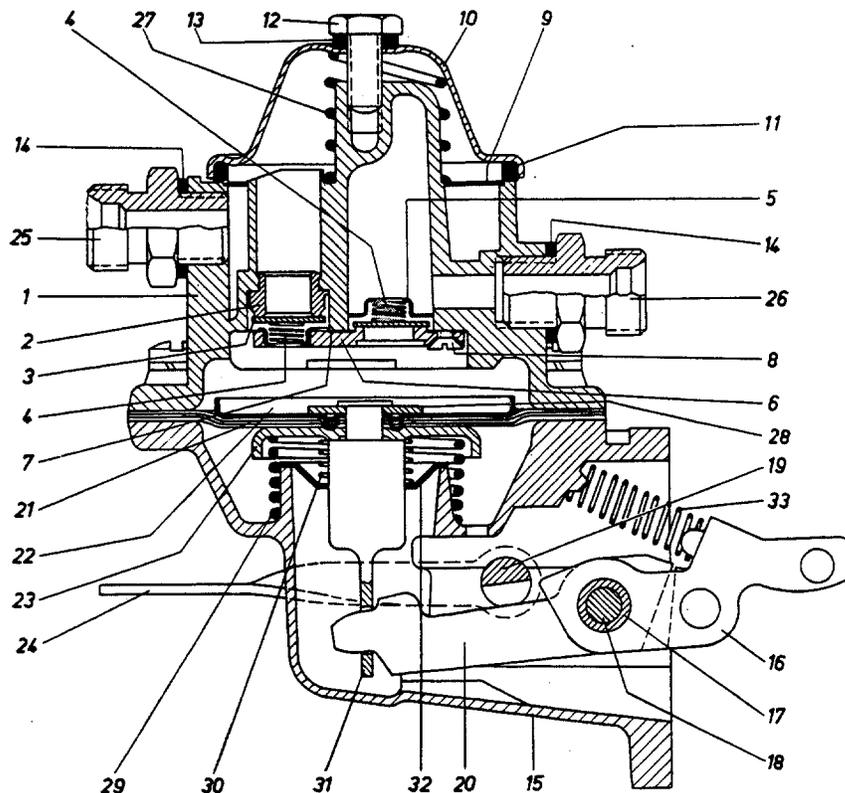


Disassembly and Reconditioning of Fuel Pump

Types 220 and 220 a

Operation No.
M 35



- 1 Upper part of housing
- 2 Valve seat
- 3 Small valve plate
- 4 Valve spring
- 5 Spring retainer
- 6 Valve plate
- 7 Gasket
- 8 Countersunk screw with toothed disc
- 9 Strainer
- 10 Cap
- 11 Sealing ring
- 12 Hexagonal nut
- 13 Sealing ring
- 14 Sealing ring
- 15 Lower part of housing
- 16 Rocker arm
- 17 Bushing
- 18 Axle
- 19 Shaft
- 20 Link
- 21 Diaphragm
- 22 Diaphragm plate
- 23 Spring supporting washer
- 24 Hand lever
- 25 Screw plug (inlet)
- 26 Screw plug
- 27 Spring
- 28 Washer
- 29 Diaphragm spring
- 30 Spring
- 31 Link
- 32 Oil protection plate
- 33 Pressure spring

Fig. M 35/00

Procedure:

1. Turn out cover screw and remove housing cover.
2. Unscrew upper part of housing, marking its position in relation to lower part.
3. Detach diaphragm from linkage. Take out diaphragm spring, spring for oil protection plate and plate itself.
4. Take out valve plate with gasket, valve with spring and spring retainer for exhaust valve.
5. Check removed parts, diaphragms, valves and springs and replace, if necessary.

Note: If the valves or the pump diaphragm are replaced, the pertaining springs must also be exchanged. Rework valves and valve springs only **in an emergency**.

When installing a new pump diaphragm, press diaphragm to BDC by means of hand

lever while you tighten the screws. Be careful that no folds will develop.

6. Check pump for proper functioning against these specifications:

Pressure: 0.25–0.3 atü (3.5–4.3 p.s.i.)

Rate of delivery: 40 l (10.6 US gal, 8.8 Imp. gal) per hour at a camshaft speed of 1,500 r.p.m. and a float needle valve of 2.0 mm (0.079"). Test the fuel pump at the bench at a suction height of 0.9 m (35.5").

Use gasoline as a testing agent.

Note: When assembling the fuel pump make sure that valves and seats are free to move, check whether gaskets are in good condition (if this is not the case, replace them) and **fill lower part of pump and intermediate flange with grease after the assembly has been completed**.