

From April 2014, all ZVA Slimline 2 and ZVA Slimline 2 GR contain the Unified Valve Assembly **EA 055** — see Information 5.14 E. For the retrofitting and repair of old nozzles we recommend only to use the new parts shown below. Note, old and new spare parts shall not be mixed to avoid malfunction.



Disassembling



Recommended tools (left to right):
EW 669/2, EW 19/22, EW 5-3, EW 3,
EW 7, EW 2 CV, EW-M 41/46



Remove slogan badge EK 145, product sleeve EK 043, scuffguard EK 044, vacuum cap EK 148.1 or EA 052 (DSA) with EW 19/22.



Remove diaphragm spring EF 250.2, diaphragm assembly EA 151.



Unscrew guard screw assembly EB 438 with two screwdrivers EW 669/2 and rear screw assembly EB 278.



Pull off the guard EG 281.



On both sides pull out lever pins EB 235 with EW 2 CV.



Lift up lever assembly EA 030 by levering with a screwdriver.



Clamp ZVA in a vice. Put assembling tool EW 3 into diaphragm chamber to secure pull rod assembly EA 058.



Remove valve seat EG 069 / 068 with double box spanner EW 19/22.



Use assembling tool EW 5-3 to push the pull rod assembly EA 058 inside, against the force of the main spring.



Remove assembling tool EW 3 from the diaphragm chamber. Release spring tension by removing EW 5-3.



Tilt nozzle body and remove pull rod assembly EA 058, main spring EF 060 or EF 061 and return spring EF 064.

Assembling



Oil pull rod assembly EA 058.1 thoroughly. Push return spring EF 064.1 with main spring EF 060.1 onto pull rod assembly.



Push this group onto assembling tool EW 5-3, oil it and insert it as shown into the nozzle body.



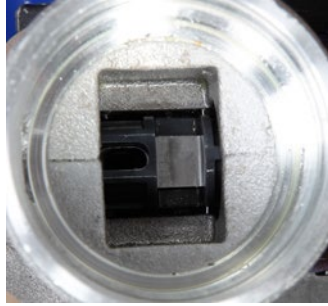
Push EW 5-3 into nozzle body and compress main spring. Put EW 3 into diaphragm chamber to fix EA 058.1



Remove EW 5-3. Put valve assembly EA 055 on EW 5-3 and apply oil.



Screw it in with EW 3. Remove assembling tools.



Check alignment of pull rod assembly recess. It should show upwards.



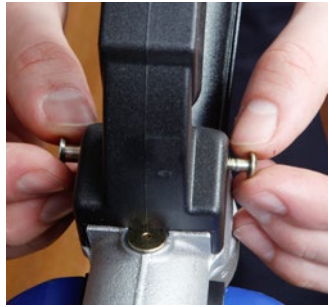
Oil lever bolt and insert lever EA 030 into nozzle body.



Align lever to the holes in the nozzle body. On both sides insert lever pins EB 235 to secure lever.



Push guard EG 281 onto nozzle body. Align the guards to the holes of the nozzle body.



Insert guard screw assembly EB 438.



Tighten screws with screwdrivers EW 669/2.



Insert rear screw EB 278 and tighten it with a torque of 3 Nm (hand-tight).



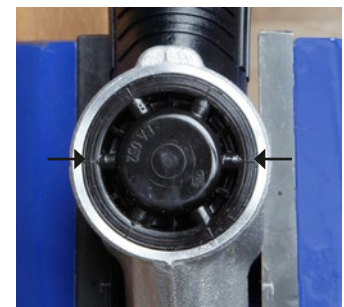
Clamp the nozzle tilted into the vice. With rollers showing downside insert diaphragm assembly EA 151 into diaphragm chamber.



Squeeze lever to check that rollers are engaged into pull rod assembly. If ok, position diaphragm spring EF 250.2 centred on the diaphragm assembly.



Apply oil on nozzle thread, o-ring zone and outer border of the diaphragm. Screw vacuum cap EK 148.1 or EA 052 (DSA) hand-tight into the nozzle body.



The ribs of the vacuum cap must be in 3 or 9 o'clock position, in order that product badges EK 145 can be fixed correctly.



Elaflex recommends to **mark nozzles equipped with the Unified Valve Assembly** on the nozzle body (above the serial number) **with an "E"**.

This is our standard marking for ZVA 2 / ZVA 2 GR containing the Unified Valve Assembly.

It helps to quickly recognize the new inner parts of a nozzle.