

FL-45 Injectors

Oil

General

FL-45 injectors are ideal for applications where a large volume output is required. These rugged injectors are suited to satisfy the needs of large processing machinery, such as mining, pulp and paper and material handling equipment. FL-45 injectors dispense oils compatible with Viton and Hytrel packings.

Technical Data

Adjustable Output	.050 cu. in. (.819cc) minimum .500 cu. in. (8.19cc) maximum
Operating Pressure	750 psi (51 bar) minimum 1500 psi (68 bar) maximum (do not exceed 1500 psi operating pressure) 850 psi (58 bar) recommended
Vent (Recharge Pressure)	250 psi (17 bar) maximum
Lubricant Outlet	1/4" NPT female

Adjustment

The FL-45 injector's outlet is adjusted with the hex screw on top. Minimum output of approximately .050 cu. in. is obtained when the adjusting screw is turned into the injector, hand tight. To obtain the maximum output of .500 cu. in., start at the minimum setting and turn the screw approximately 12 turns out of the injector. Each turn of the screw is approximately .040 cu. in. output. When the injector is adjusted to a half turn open or less, output from the injector should be verified.

Installation

Assembly instructions (refer to "Service Parts" drawing on p. 2)

1. Clean all components, and carefully inspect parts for wear, replacing as necessary.
2. Start assembly by installing the two packings (item 13) into the valve body (item 10), followed by the spacers (item 6). Install the O-rings (item 8) and back-up rings (item 7) into the grooves on the outside of the valve body. (See valve body detail for correct assembly sequence). Apply grease to O-rings on outside of valve body, and slide the valve body into the inlet adapter (item 12).
3. Install O-ring (item 4) onto the inlet adapter (item 12). Install inlet adapter into the injector body, and tighten by hand, assuring that the valve body slides into its respective bore. Tighten inlet adapter to the injector body.
4. Apply grease to the slide valve assembly (item 15). Insert the slide valve assembly through the top of the injector into the valve body packings (item 13), which should already be installed into the bottom of the injector body. Drop in the spring (item 5) and place the spacer (item 6) inside the spring.
5. Install the lip seal (item 18) on the piston assembly (item 21). Apply grease to the piston, seal and indicator rod. Place the piston assembly into the piston bore of the injector body. Install O-ring on adjustment adapter (item 3). Install washer (item 20) and packing (item 19) into adjustment adapter. Apply grease to the O-ring on the adjustment adapter and the mating bore in the top of the injector body. Carefully slide the pre-assembled adjustment adapter over indicator pin on the piston assembly (item 21), screw adjustment adapter into the injector body hand tight, then tighten with wrench. Reinstall adjustment screw (item 1) into adjustment adapter.



ATTENTION

Exercise caution when assembling lip seal on piston to ensure no damage occurs.

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Disassembly Instructions (refer to "Service Parts" drawing below)

1. Remove the adjustment adapter (item 3) from the top of the injector. Remove the piston assembly (item 21), plunger spring (item 5) and spacer (item 6) from inside the injector.
2. Remove the inlet adapter (item 12) from the bottom of the injector. To remove the slide valve assembly (item 15), turn injector over, with the top pointing down. If the slide valve does not fall out, it may be pushed out of the slide valve packings (item 13) with a blunt object, being careful not to scratch or cut the packings in the slide valve body.
3. Remove the valve body (item 10):
 - a. If it sticks in the inlet adapter (item 12), gently pry the valve body out of the inlet adapter using a small rod. Place the rod into a hold in the side of the valve body and pry against the face of the inlet adapter. Work one hole at a time, working around the valve body until it is freed.
 - b. If the valve body sticks in the injector body, use a brass or wooden dowel to gently tap the valve body out of the injector body.
4. To remove the indicator stem packing (item 19) from the adjustment adapter (item 3), remove the adjustment screw (item 1) from the adjustment adapter. Use a wooden dowel, placed into the adjustment screw hold to tap the washer (item 20) and packing out of the adjustment adapter, from the bottom side.

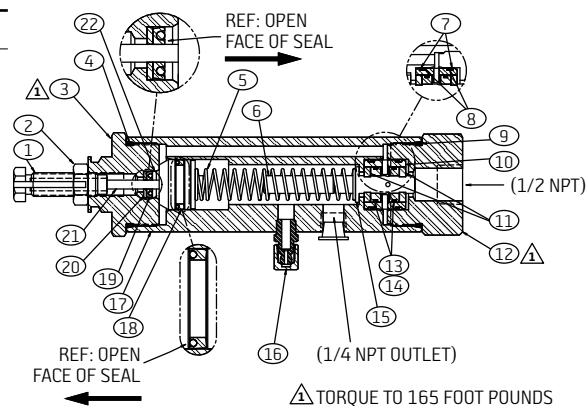
How to Order

Name	Part #
FL-45 Injector	FL45

When ordering, specify by name or part number, e.g. Injector FL-45, Part #FL45.

Service Parts

Item	Qty	Part #	Description
1	1	14379B	Adjusting screw
2	1	14380A	Lock nut
3	1	32369	Adjustment adapter
4	2	14383A	Viton O-ring (*)
5	1	32365	Plunger spring (*)
6	2	14397A	Spacer (O)
7	2	14392A	Backup ring (*)
8	2	14393A	Viton O-ring (*)
9	1	14383A	Viton O-ring
10	1	14394A	Valve body (O)
11	1	14390A	Spacer
12	1	14396B	Inlet adapter
13	2	14391A	Packing (*)
14	1	14441A	Viton O-ring
15	1	14389A	Slide valve assembly (*)
16	1	13859A	Bleed fitting
17	1	14395C	Injector body
18	1	32363	Lip seal (*)
19	1	32364	Packing (*)
20	1	13736A	Washer (*)
21	1	32367	Piston assembly
22	1	U123451	Retain Ring



* = Available in Injector Repair Kit #14629
 O = Available in Valve Body Assembly #14453

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