

HAMMPACK[®]

building injection equipment

PI-PUMP 3K



TECHNICAL DATA SHEET

PI-PUMP 3K

professional line

Pneumatic piston pump

Index: PI-PUMP 3K



Flow ratio	40:1
Pump output per cycle	73 cm ³
Stroke	80 mm
Maximum output (free flow)	9 ltr/min
Maximum outlet working pressure	240 Bar (3480 PSI)
Maximum inlet air pressure	8 Bar (116 PSI)
Weight	45 kg
Air consumption	250 - 400 ltr/min
Medium inlet connection:	M 36x2
Medium outlet connection	1/4'
Seal material	PTFE - PE

DESCRIPTION:

Three-component pneumatic piston pump for injection, designed for single- and two-component acrylic resins, as well as curtain injections, expansion joint sealing, structural crack repair, and pressure filling in concrete. The design is based on piston pump technology, ensuring high pressure stability, precise regulation, and high wear resistance. The pump is designed for construction and field conditions – rigid frame, transport trolley, valves made of sintered carbides, and a piston rod lubrication system ensure durability and low operating costs.

APPLICATIONS:

- Acrylic resin injection
- Polyurethane resin injection (elastic and foaming PU)
- Epoxy resin injection
- Injection of cracks and fractures in concrete
- Curtain injections
- Soil stabilization
- Anti-leakage injections in tunnels, tanks, garages, foundations
- Filling gaps and expansion joints
- Field and service work

MAIN ADVANTAGES:

- Recommended working pressure up to 220 bar
- Low pulsation, smooth piston operation – ideal for low-viscosity resins
- Wetted parts made of stainless steel and sintered carbide
- Automatic piston rod lubrication chamber – protects against seizure and corrosion
- Pressure adjustment range: 0–220 bar
- Quiet pneumatic operation
- Continuous operation capability
- Compact, mobile design
- Fast cleaning and easy valve disassembly
- High resistance to chemically aggressive acrylic resins

POWER SUPPLY:

- Required compressor min. 300 l/min, depending on working pressure
- Recommended air filter + water separator / condensate trap
- Possibility of using air with antifreeze additive at low temperatures

RECOMMENDED ACCESSORIES::

- 300 bar injection gun
- Stainless steel quick couplings
- Hose set for aggressive resins (min. 240 bar)
- Mixing head with static mixing system
- Suction stand for containers from 5 to 25 L

CLEANING AND MAINTENANCE:

- After each operation, flush the pump with a suitable thinner
- Never allow resin to harden in the valves
- Regularly refill oil in the lubrication chamber
- Replacement of the complete seal set recommended every 8–12 months
- Store hoses filled with oil – never dry

Cleaning

After each extended break in operation, all tools and equipment must be cleaned using **PI-CLEANER A**. Ensure adequate ventilation during cleaning. Read the technical data sheets of the cleaning agent.

In case of prolonged non-use of the injection pump, it is recommended to fill it with hydraulic oil.



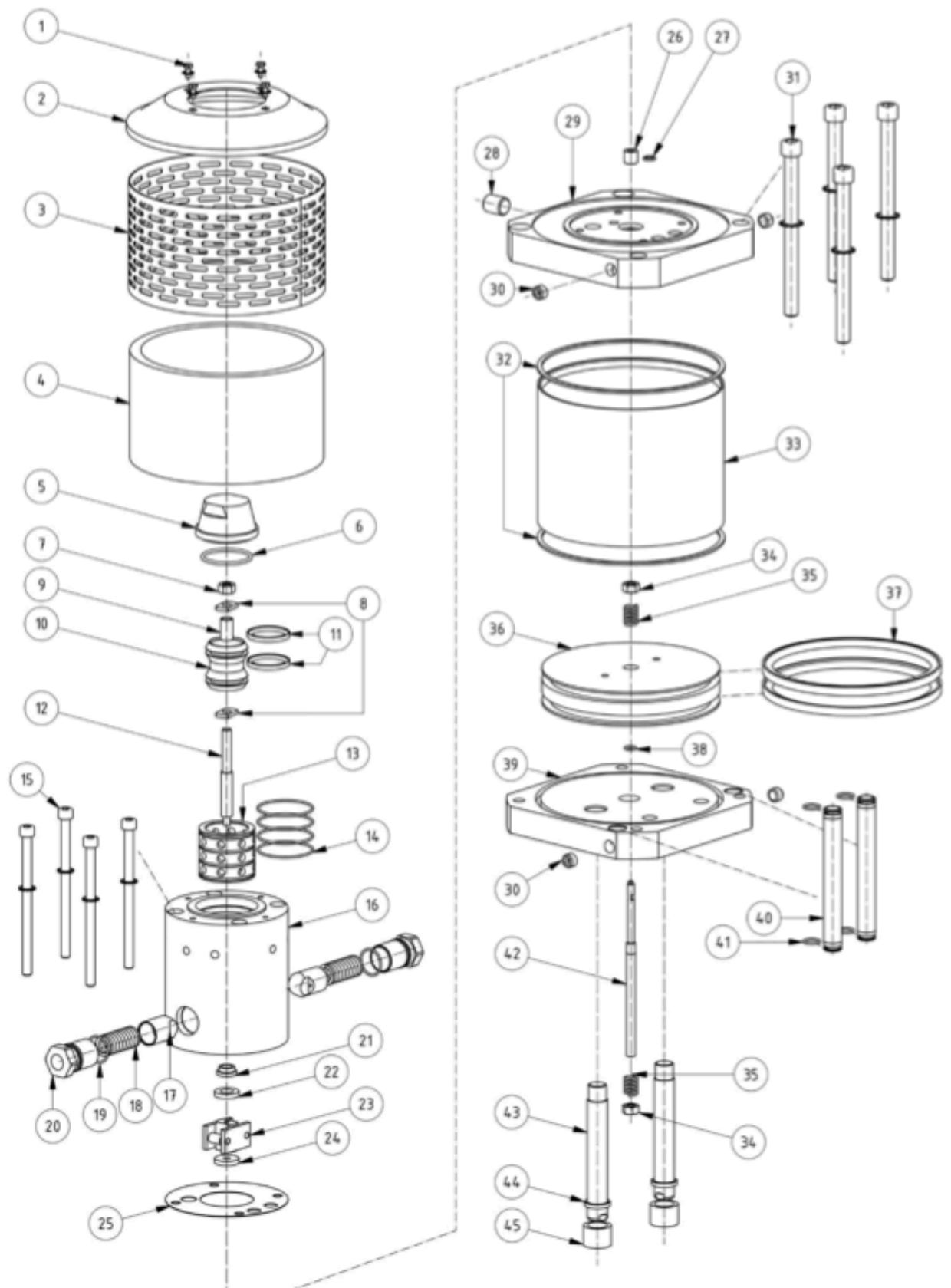
Maintenance

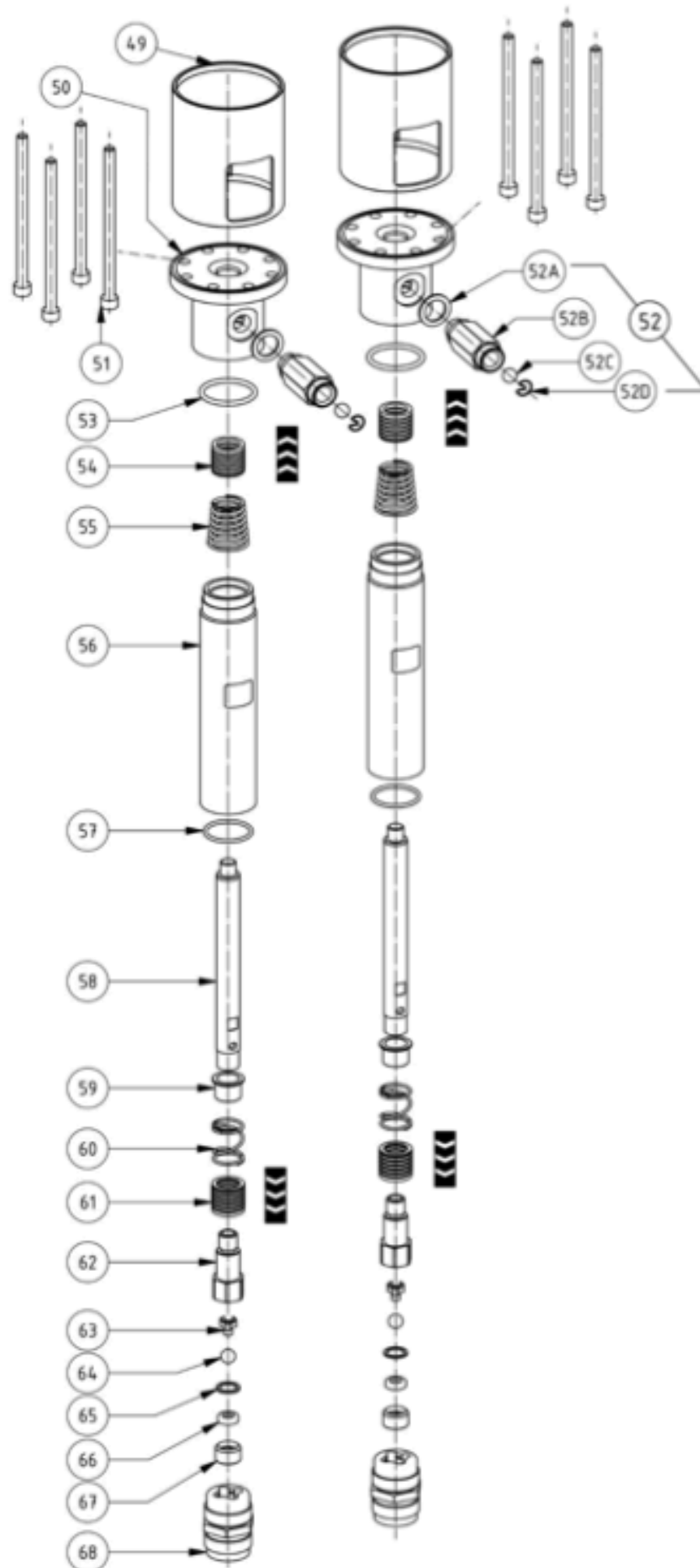
After flushing, use **PI-SAVER** for equipment preservation; it is also useful for protecting the pressure gauge.

If you want the pressure gauge to operate correctly after the injection process, use **PI-SAVER oil**:

- A. Pour the oil into the pump so that the pump's maximum pressure can be generated with the valve closed. Remember that most injection pumps should not operate without liquid. **PI-SAVER** should reach the Bourdon tube of the pressure gauge and remain there throughout the entire injection process. If injection material enters this area and hardens, the pressure gauge will stop working or become stuck at an incorrect pressure reading.
- B. This also gives you an opportunity to check whether the pump is operating correctly.
- C. Drain the oil.







Pos.	Index	Name	Qty
30	PI-AIR-30	Air plug 1/4"	4
31	PI-AIR-31	Motor mounting bolt with washers	4
32	PI-AIR-32	Air cylinder seal	2
33	PI-AIR-33	Air cylinder	1
34	PI-AIR-34	Spring nut	2
35	PI-AIR-35	Piston spring	2
36	PI-AIR-36	Air piston	1
37	PI-AIR-37	Air piston with lubrication ring	2
38	PI-AIR-38	Rod O-ring	1
39	PI-AIR-39	Lower flange	1
40	PI-AIR-40	Air hose	2
41	PI-AIR-41	Air hose O-ring	4
42	PI-AIR-42	Reversing control rod	1
43	PI-AIR-43	Reversing rod	2
44	PI-AIR-44	Retaining ring	2
45	PI-AIR-45	Guide bushing	2
49	PI-MAT-01	Motor-piston spacer	2
50	PI-MAT-02	Central body	2
51	PI-MAT-3	Screw	8
52	PI-MAT-4	Complete check valve	2
53	PI-MAT-5	PTFE O-ring	2
54	PI-MAT-6	Upper seal set	2
55	PI-MAT-7	Conical spring	2
56	PI-MAT-8	Cylinder	2
57	PI-MAT-9	PTFE O-ring – pressure seal	2
58	PI-MAT-10	Piston	2
59	PI-MAT-11	Spring plate	2
60	PI-MAT-12	Piston spring	2
61	PI-MAT-13	Lower seal set	2
62	PI-MAT-14	Delivery valve body	2

Pos.	Index	Name	Qty
63	PI-MAT-15	Suction valve guide	2
64	PI-MAT-16	Steel ball Ø11	2
65	PI-MAT-17	Copper gasket 1/4"	2
66	PI-MAT-18	Ball seat 11 TC	2
67	PI-MAT-19	Delivery valve body	2
68	PI-MAT-20	Complete suction valve	2