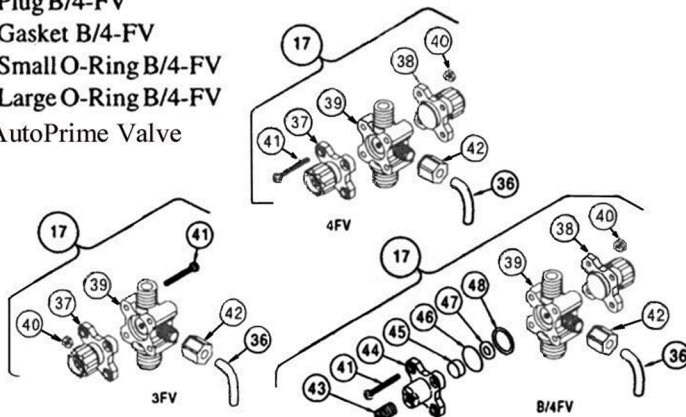
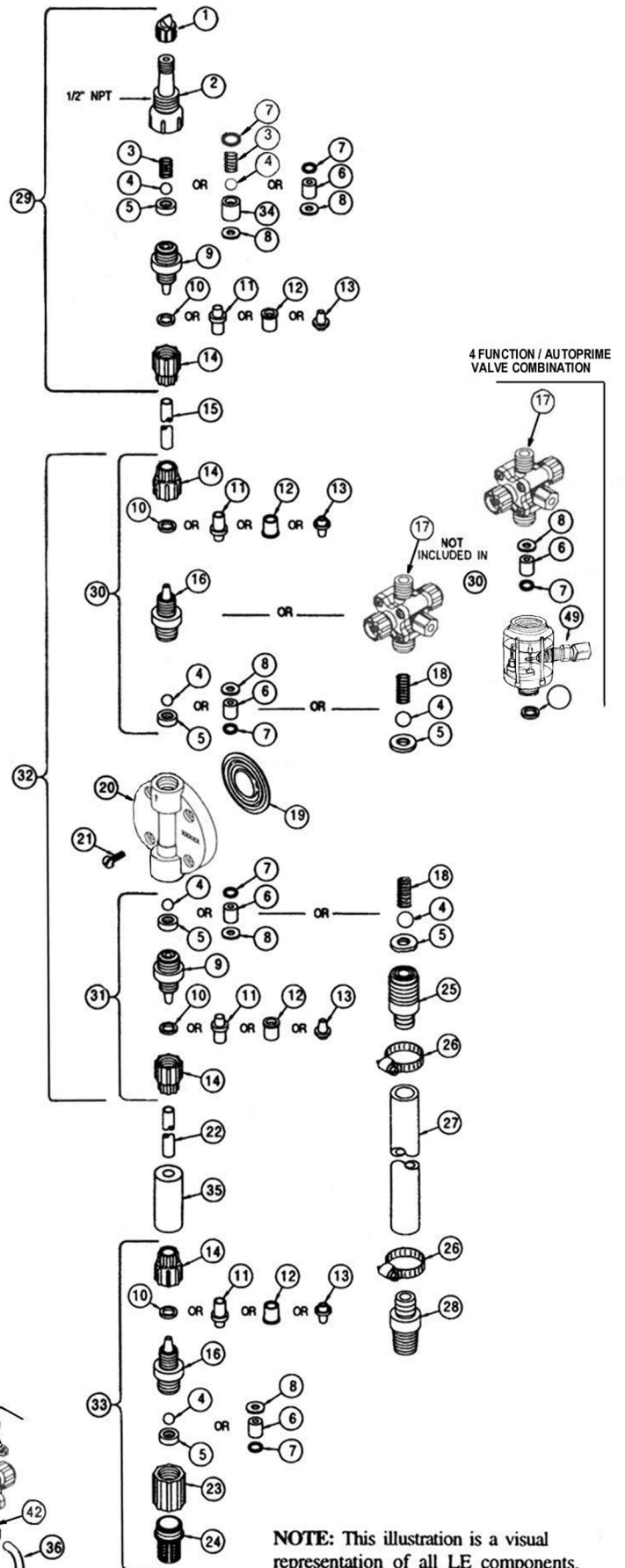


# LE-450SP, TP, BP, HP

			450SP	450TP	450BP	450HP
Key Number	Part Number	Description				
1	27352	Flapper Valve	1	1	1	1
2	37351	Injection Check Valve Body	1	1	1	1
3	37341*	Injection Check Valve Spring	1	1	1	1
4	10338*	Check Valve Ball	1	1	1	1
5		Seal Ring				
6	36304*	Cartridge Valve	3	3	3	3
7	36103*	Cartridge Valve O-Ring	3	3	3	3
8	36107*	Cartridge Valve Washer	3	3	3	3
9		Valve Seat				
10		Clamp Ring				
11		Ferrule				
12		Clamp Sleeve				
13		Tubing Adapter				
14		Coupling Nut				
15		Tubing				
16	37767	Valve Housing	3	3	3	3
17	38059	Multi-Function Valve, 3FV		1		
	37983	Multi-Function Valve, 4FV	1			1
	37984	Multi-Function Valve, B4FV			1	
18		High-Viscosity Spring				
19	30916*	Liquifram	1	1	1	1
20	38578	Pump Head	1	1	1	1
21	30856*	Pump Head Screw	4	4	4	4
	38490*	Pump Head Washer, S.S.(not shown)	4	4	4	4
22		Suction Tubing				
23	36204	Foot Valve Seat	1	1	1	1
24	10123	Foot Valve Screen	1	1	1	1
25		High-Viscosity Valve Seat				
26		H.V. Tubing Clamp				
27		H.V. Suction Tubing				
28		H.V. Tubing X 1/2 Connector				
29	38028	Injection Check Valve Assembly	1	1	1	1
30		Discharge Valve Assembly				
31	38022	Suction Valve Assembly	1	1	1	1
32	HALE450TP	Pump Head Assembly		1		
	HALE450SP		1			
	HALE450BP				1	
	HALE450HP					1
33	38034	Foot Valve Assembly	1	1	1	1
34	37340	Injection Seat PTFE	1	1	1	1
35	10322	Ceramic Weight				
36	25636-10	Return Line	1	1	1	1
37	36260	Cap ASM P/R (Black Knob)	1	1		1
38	36280	Cap ASM A/S (Yellow Knob)	1		1	1
39	38065	Multi-Function Valve Body, 3FV		1		
	37989	Multi-Function Valve Body, 4FV	1			1
	37989	Multi-Function Valve Body, B4FV			1	
40	25628	Nut Multi-Function Valve	4	4	4	4
41	25627	Screw Multi-Function Valve	4	4	4	4
42	25631	Return Line Coupling Nut	1	1	1	1
43	34876	Adjustment Screw B/4FV			1	
44	32171	Cap B/4FV			1	
45	34868	Plug B/4FV			1	
46	32173	Gasket B/4FV			1	
47	32175	Small O-Ring B/4FV			1	
48	32176	Large O-Ring B/4FV			1	
49	38724	Auto Prime Valve, Acrylic				1
*Parts Included in <b>RPM-352/358 - Repair &amp; Preventative Maintenance Kit</b> ( Spare Parts)						
Additional Parts Included in Kit:						
	10973	Shaft Seal	1	1	1	1
	10340	Screw (for old-style head)	4	4	4	4

# Liquid End Parts List

- 1 Flapper valve
- 2 Injection check valve body
- 3 Injection check valve spring
- 4 Check valve ball
- 5 Sealing ring
- 6 Cartridge valve
- 7 Cartridge valve o-ring
- 8 Cartridge valve washer
- 9 Valve seat
- 10 Clamp ring
- 11 Ferrule
- 12 Clamp sleeve
- 13 Tubing adapter
- 14 Coupling nut
- 15 Discharge tubing
- 16 Valve housing
- 17 Multi-function valve
- 18 High-viscosity spring
- 19 Liquifram
- 20 Pump head
- 21 Pump head screw
- 22 Suction tubing
- 23 Foot valve seat
- 24 Foot valve screen
- 25 High-viscosity valve seat
- 26 H.V. tubing clamp
- 27 H.V. suction tubing
- 28 H.V. Tubing x 1/2 NPT connector
- 29 Injection check valve assembly
- 30 Discharge valve assembly
- 31 Suction valve assembly
- 32 Pump head assembly
- 33 Foot valve assembly
- 34 Injection Seat PTFE
- 35 Ceramic Weight
- 36 Return Line
- 37 Cap ASM (Black Knob)
- 38 Cap ASM (Yellow Knob)
- 39 Multi-Function Valve Body
- 40 Nut Multi-Function Valve
- 41 Screw Multi-Function Valve
- 42 Return Line Coupling Nut
- 43 Adjustment Screw B/4-FV
- 44 Cap B/4-FV
- 45 Plug B/4-FV
- 46 Gasket B/4-FV
- 47 Small O-Ring B/4-FV
- 48 Large O-Ring B/4-FV
- 49 AutoPrime Valve



**NOTE:** This illustration is a visual representation of all LE components. Liquid ends will not include all parts shown.