



IMI CORNELIUS INC.  
One Cornelius Place  
Anoka, MN. 55303-6234  
Telephone 1-800-238-3600  
Facsimile 1-800-258-0255

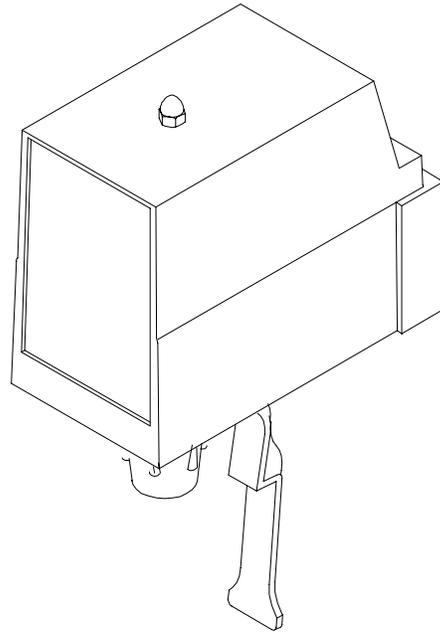
## ILLUSTRATED PARTS LIST

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### SF-1 DISPENSING VALVE

#### MODEL NOS.

0933,	0998	
1075,	1076,	
1437,	1438,	
1439,	1690,	
2103,	2458,	
2985,	3189,	
3301,	3328,	
3419,	4322,	
4323,	4324,	
300096015	309036015	
309112015	309163015	
309391015	309680017	
309869015	317847002	
317847015	317848015	
317849015	317850015	
317923015	318386015	
318806015	318807015	
318812015	318813015	
318853015	318978015	
319102015	319112015	
319163015	319168015	
319200015	319503015	

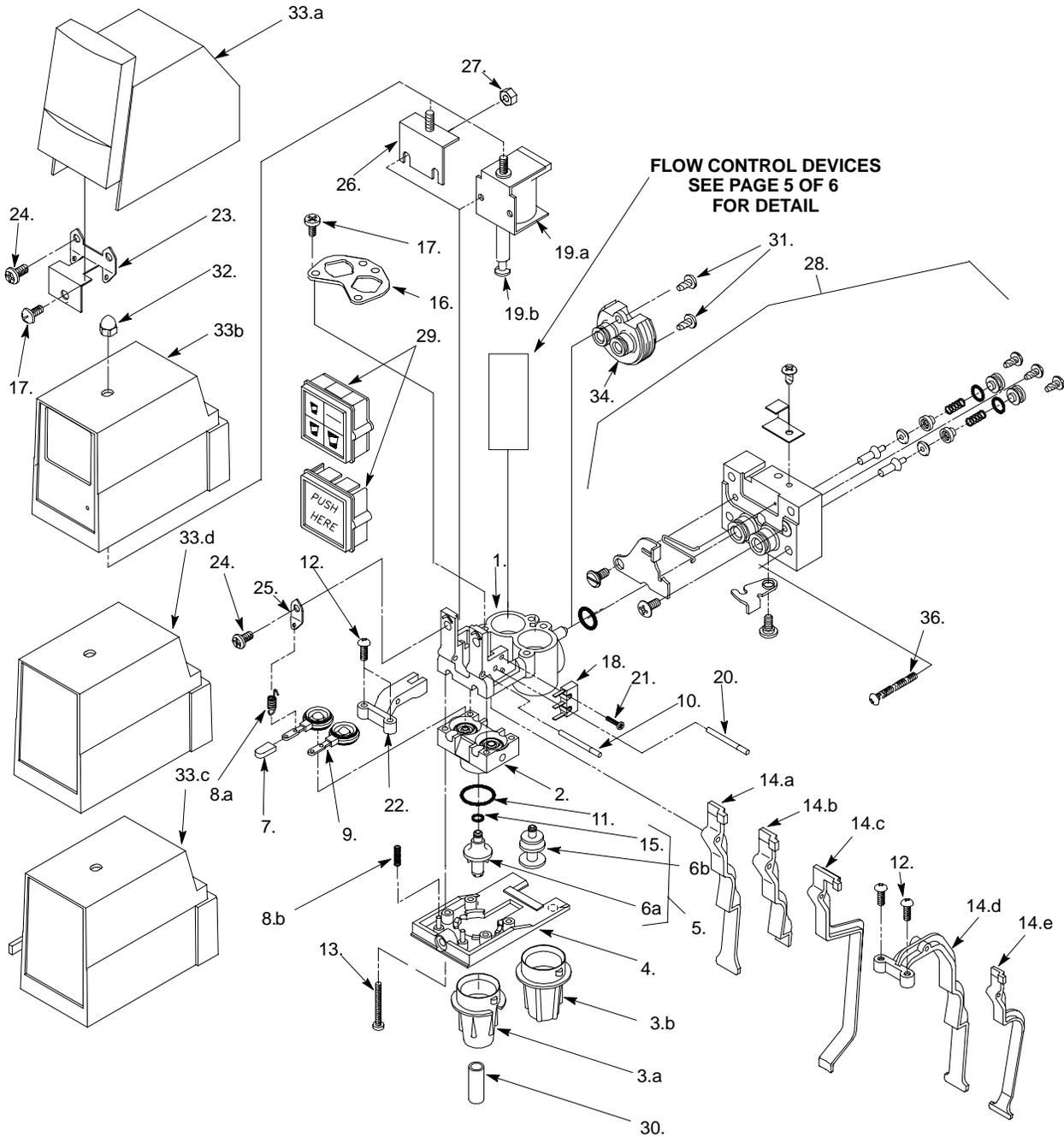




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### SF-1 POST-MIX DISPENSING VALVE



**FIGURE 1. SF-1 VALVE ASSEMBLY**



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Index No.	Part No.	Description
1.	3073	Body, Retro-Fit Latch
	0414	Body, Sabre Latch
	3076	Body, No Latch
	3074	Body, Non-Carb
2.	317639051	Block, Valve, Non-Carb
	309997000	Block, Valve, Sabre
3.a	317649000	Nozzle, Standard
	81317649000	Nozzle Kit (Includes Items 3, 6 and 15)
3.b	309994013	Nozzle, Sabre
4.	317718000	Support, Cover, Standard
	2456	Support, Cover, Tea
	309162000	Support, Cover, Sabre
5.	318523088	Baffle and O-Ring (Includes 6.a and 15.)
6.a	318523027	Baffle, Standard
	318754011	Baffle, Hi-Flow and Diet
	319330000	Baffle, Non-Carb
6.b	309951000	Baffle, Sabre
7.	317782000	Nib, Long, Water
8.a	317723000	Spring, Extension
8.b	3705	Spring, Compression
9.	311355000	Valve Inlet
10.	319693000	Pin, Groove
11.	398033013	O-Ring, .799 I.D. By .070 C.S.
12.	314813009	Set Screw, No. 8-32 By 1/2-In. Long
13.	317828000	Thread Rolling Screw, Phil Rd. Hd., No. 6-32 By 1-1/4-In. Long
14.a	317721000	Lever, Electric
14.b	318675000	Lever, Electric, cut-off
14.c	3282	Lever, Self-Serve
14.d	317646007	Lever, Manual
14.e	309960013	Lever, Sabre
	2457	Lever, Tea (Not Shown)
15.	319541000	O-Ring, .157 I.D. By .070 C.S.
16.	4147	Retainer, for Flow Control Body
17.	317784000	Thread Cutting Screw, Phil Truss Hd., No. 8-18 By 1/2-In. Long

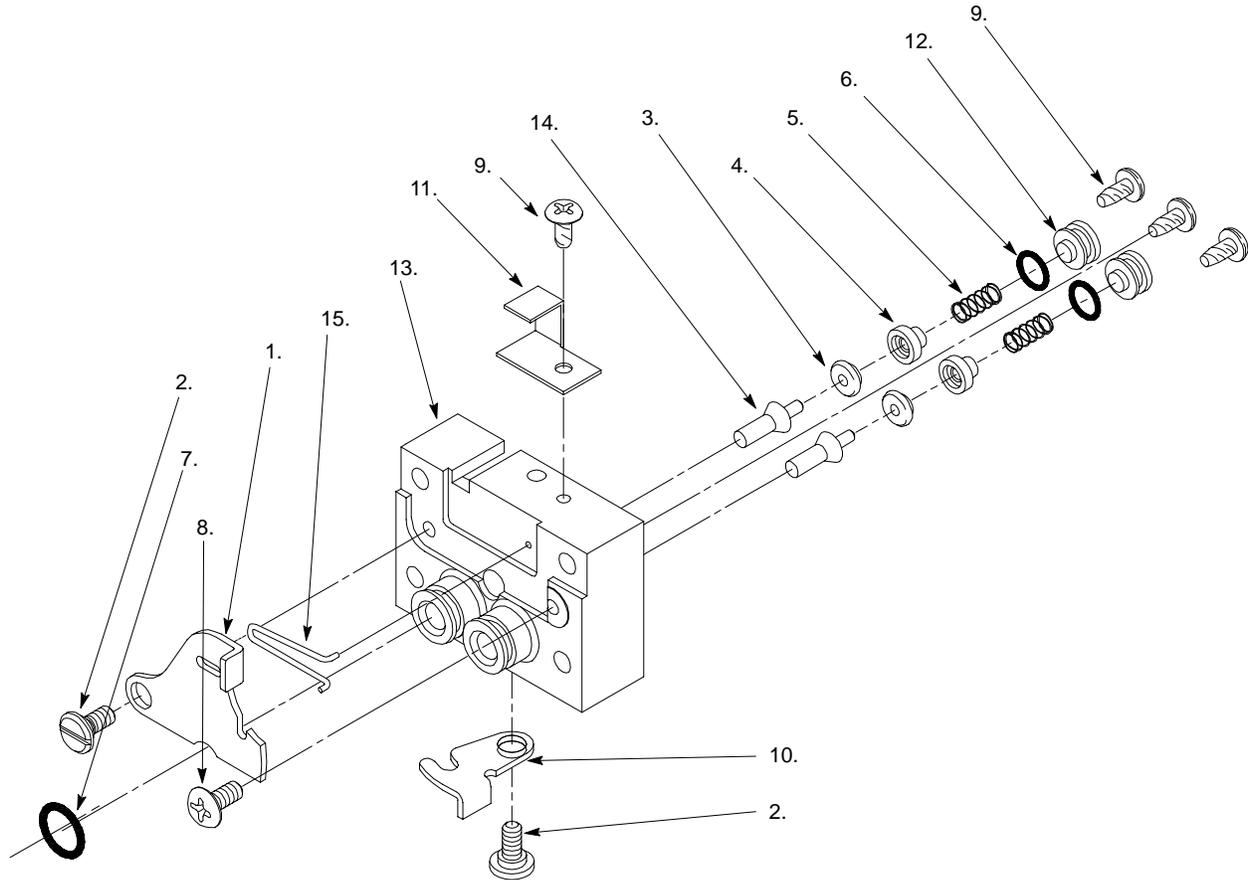
Index No.	Part No.	Description
18.	317783000	Micro Switch, Electric
	560000795	Micro Switch, Electric
19.a	312017000	Solenoid, 24V.
	312017011	Solenoid, 24V., With Stud
19.b	318589000	Solenoid Plunger only
20.	317820000	Pin, Lever, Electric
21.	317825000	Machine Screw, Phil Truss Hd., No. 2-56 By 7/16-In. Long, Electric
	317825001	Thread Forming Screw, Phil Rd. Hd No. 2-28 by .437 Long
22.	317703007	Arm, Solenoid, Electric
23.	309157000	Bracket, Cover, Sabre
24.	309029000	Machine Screw, Phil Pan Hd., No. 10-32 By 7/16-In. Long
25.	319692000	Retainer, Spring
26.	309843000	Bracket, Cover, Manual
27.	398024400	Hex Nut, Stainless Steel, No. 10-32 Manual
28.	318838015	Block Ass'y, Standard (See Figure 2)
	319166015	Block Ass'y, Retrofit (See Figure 2)
	309950015	Block Ass'y, Sabre (See Figure 2)
29.	317891015	Portion Control Ass'y
	309941000	Self Serve Switch
30.	300097000	Extension, Baffle
31.	317895000	Thread Cutting Screw, Phil Pan Hd. Stainless Steel, No. 10-32 By 1/2-In. Long (Threaded Block)
32.	309842000	Acorn Nut, No. 10-32
33.a	309158000	Cover, Sabre
33..b	317884012	Cover, W/O Lever, Portion Control
33..c	317879014	Cover, With Lever, Electric and Manual
33..d	317884011	Cover, W/O Lever, Electric and Manual
34.	317645051	Block, Threaded
35.	317821000	Wire Harness, (Not Shown)
36.	318308000	Thread Rolling Screw, Phil Pan Hd Stainless Steel, No. 10-32 By 1-In Long



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### SF-1 POST-MIX DISPENSING VALVE



**FIGURE 2. VALVE BLOCK ASSEMBLY**

Index No.	Part No.	Description
	318838015	Block Ass'y, Standard
	319166015	Block Ass'y, Retrofit
	309950015	Block Ass'y, Sabre
1.	319095000	Lever
2.	317777001	Shoulder Screw, Slotted, Stainless Steel, No. 8-32 By 5/16-In. Long
3.	180018053	Washer, Rubber
4.	178019006	Retainer, Washer
5.	309804000	Spring
6.	197222000	O-Ring, .239 I.D. By .070 C.S.
7.	180025000	O-Ring, .364 I.D. By .070 C.S.

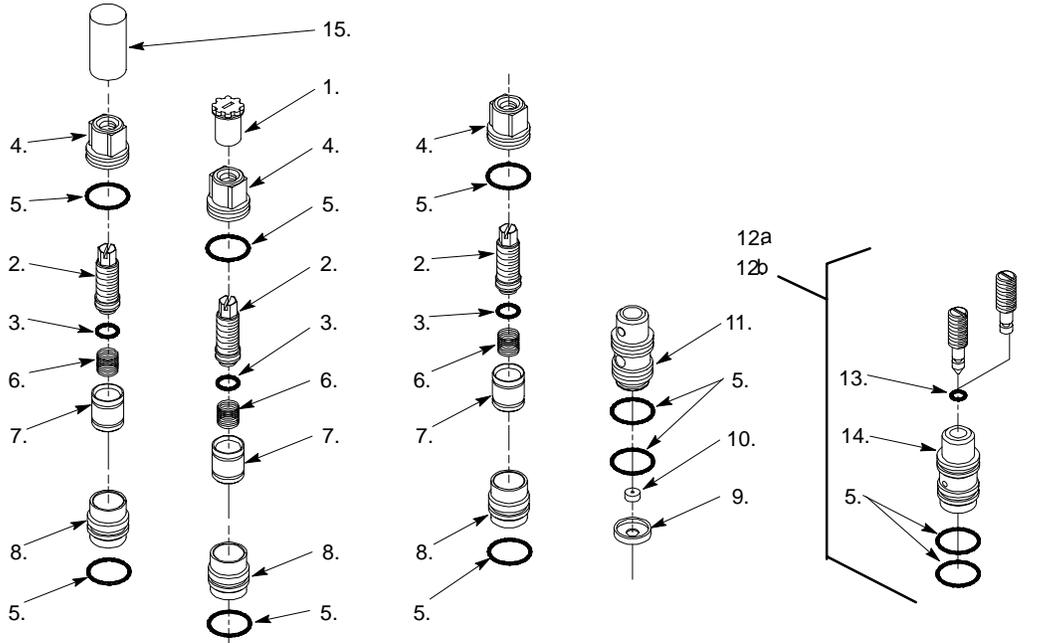
Index No.	Part No.	Description
8.	317784000	Thread Cutting Screw, Phil Truss Hd., Stainless Steel, No. 8-32 By 1/2-In. Long
9.	151841000	Thread Rolling Screw, Phil Pan Hd. Stainless Steel, No. 6-19 By 5/16-In. Long
10.	0147	Latch
11.	300592000	Clip, Cover, Sabre
12.	317713000	Cap, Connector
13.	0407	Block, Standard
	0408	Block, Retrofit
	0406	Block, Sabre
14.	317702001	Stem, Poppet
15.	317716000	Spring



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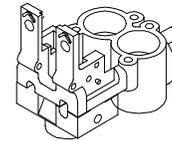
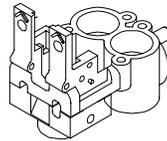
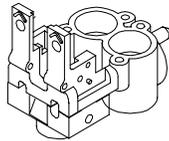
### SF-1 POST-MIX DISPENSING VALVE



**FAST FLOW  
VALVE**

**FLOW WASHER  
(STANDARD VALVE)**

**NEEDLE or  
GATE VALVE**



Index No.	Part No.	Description
1.	309991000	Knob, Syrup Regulator
2.	310632051	Adjusting Screw
3.	180025000	O-Ring, .364 I.D. By .070 C.S.
4.	319133051	Top, Flow Control
5.	317816000	O-Ring, .676 I.D. By .070 C.S.
6.	310482000	Spring
7.	310754011	Piston, Water, Ceramic
	310480011	Piston, Syrup, Ceramic
	1937	Piston, Syrup, Juice
8.	317431011	Sleeve, Ceramic

Index No.	Part No.	Description
9.	319546011	Retainer
10.	311194000	Flow Washer, .60 GPM
11.	319545051	Housing, Flow Washer, SF-1
	309711000	Housing, Flow Washer, Sabre
12.a	319535008	Needle Valve Flow Control Ass'y
12.b	4026	Gate Valve Flow Control Ass'y
13.	140092000	O-Ring, .114 I.D. By .070 C.S.
14.	319138000	Housing, Needle Valve
15.	309992000	Cap, Water



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### SF-1 DISPENSING VALVE ACCESSORIES/KITS

#### FLOWASHER FLOW RATE

Corco P/N	Nominal Flow Rate	
	GPM	Oz/Sec
311193000	.30	.64
317199000	.40	.85
311194000	.60	1.28
30-807000	.75	1.75
319547011	1.00	2.50

#### SF-1 DISPENSING VALVE RETRO-FIT KIT P/N 31-9122-000

Part No.	Description
319122005	Template, Corco
319122006	Template, CSC
319122007	Template, ICI
319122008	Template, McCann
319122009	Template, Booth
319122011	Punch, 1.375 Dia.
319122012	Drill Bit, .172 Dia.

#### BRIX CUPS AND BY-PASS TUBES

Part No.	Description
311100000	Brix Cup, 5-5.5 to 1 Ratio
560001939	Brix Cup, 5-5.5 to 1 Multi Ratio
319540000	By-Pass Tube Ass'y, SF-1 Valve
309626200	By-Pass Tube Ass'y, Sabre

#### GATE FLOW CONTROL ASSEMBLY FOR NON-CARB SF-1 DISPENSING VALVE KIT P/N 4026

#### RETROFIT SF-1 VALVE TO THREADED BLOCK

Qty No.	Part No.	Name
1	317645007	Block, Threaded
2	180025000	O-Ring, .364 I.D. By .070 C.S.
2	317895000	Thread Cutting Screw, Phil Pan Hd. No. 10-32 By 1/2-In. Long

#### REPAIR KIT P/N 1767 (INCLUDES ALL RUBBER COMPONENTS FOR THE SF-1 VALVE)

#### REPAIR KIT P/N 1768 (FOR MOUNTING BLOCK FOR THE SF-1 VALVE)

#### SF-1 VALVE BODY REPLACEMENT KIT P/N 319612008 (NON-X BODY)

#### SF-1 VALVE BODY REPLACEMENT KIT P/N 319612011 (X BODY)

#### REPLACEMENT KIT P/N 319071008 (SF-1 DISPENSING VALVE SYRUP FLOW CONTROL)

#### REPLACEMENT KIT P/N 319072008 (SF-1 DISPENSING VALVE WATER FLOW CONTROL)

#### REPLACEMENT KIT P/N 319073008 (SF-1 DISPENSING VALVE WATER FLOWASHER)