

HEAVY DUTY FILTER AND COALESCING FILTER Installation Instructions, Operating Instructions and Parts List

Application:

The Heavy Duty Series Filter is designed to provide lasting service and superior performance in today's demanding industrial environment. A wide variety of options and accessories make this filter adaptable to any application.

Options and Accessories:

Options*:	<i>Suffix</i>
Automatic Drain .....	.D
20 micron Element .....	.F
12 micron Element .....	.X
Bowl Guard (for 1/4", 3/8" and 1/2" units) .....	.R
Metal Bowl with sightglass .....	.M

*Add a dash followed by the suffix(es) in alphabetical order to the model number.

Accessories:	<i>Model No.</i>
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Automatic Drain Valves –

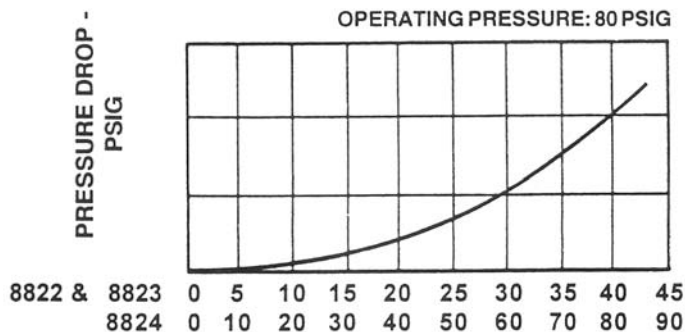
Internal*8851AD
External (requires 4 1/2" clearance below bowl)	8861

Metal Bowl with Sightglass –

1/4" and 3/8" .....	.8823-41M
1/2" .....	.8824-41M
3/4" and 1" .....	.8828-41M

*Internal Automatic Drain (8851AD - suffix "D") does not fit in 1/2", 3/4" and 1" coalescing filter units. These units must use an External Drain (8861).

Filter Performance Drop Vs. Air Flow Characteristics:



Technical Data:

Maximum Supply Pressure:

Plastic Bowl	150 PSI
Metal Bowl	250 PSI

Maximum Operating Temperature:

Plastic Bowl	120° F
Metal Bowl	250° F

Filter Element:

Standard	40 micron
Option	20 micron
Option	12 micron

Material:

Body	Die cast aluminum
Standard Bowl	Transparent polycarbonate
Bowl Guard	Steel
Optional Bowl	Aluminum with polycarbonate sightglass
Filter Element	Sintered bronze

Dimensions and Weights:

	1/4" and 3/8"	1/2"	3/4" and 1"
Height .....	.6"	7"	.9"
Width .....	.3"	3 1/2"	.5"
Weight .....	.3/4 lb.	1" lb.	.4 lbs.

Cleaning and Maintenance:

It is necessary to keep the filter clean in order to sustain peak filtering efficiency and avoid excessive pressure drop. A coating of dirt or condensation build-up on filter element or pressure drop of 10 PSID or more indicates that cleaning is required. Please note: the Coalescing Element is NOT cleanable.

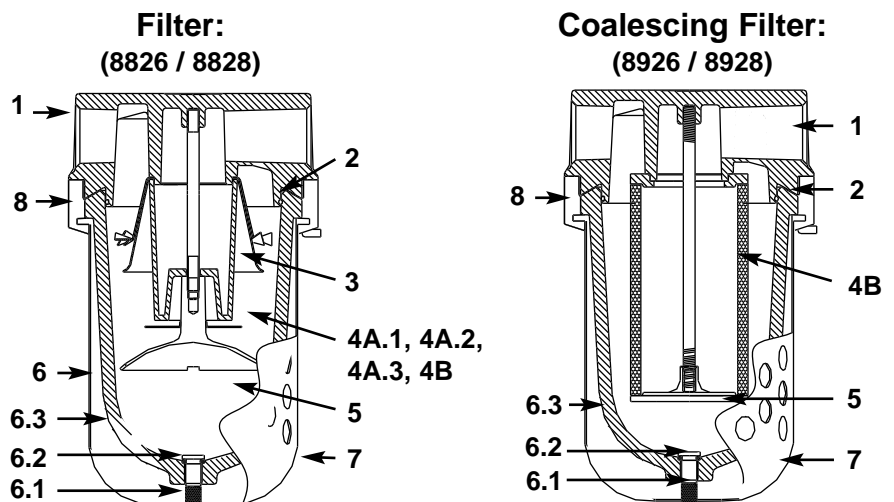
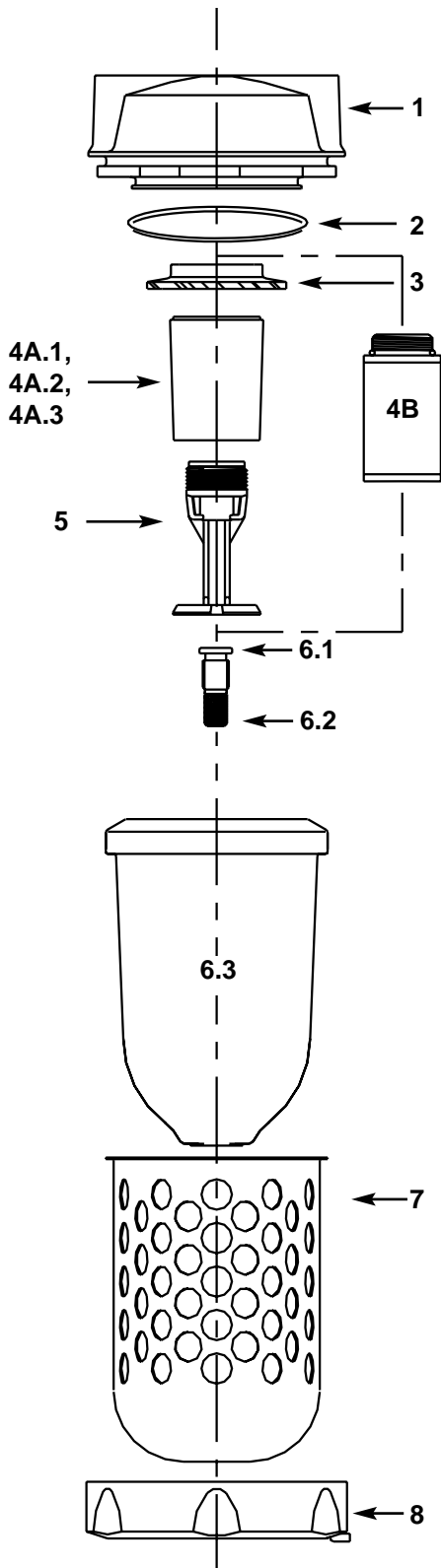
Removal of the filter from the line for cleaning is not necessary. Disassembly requires no tools and the filter and the filter element should be removed from the unit as follows.

Air supply must be shut off and the filter must be depressurized prior to disassembly. Depress the safety tab on the clamping ring and, by rotating it slightly and pulling downward, the clamp is removed from the head of the unit. The bowl can then be separated from the unit with slight downward force. Unscrew the retainer baffle from the stem and remove the filter element. The filter element should be washed in kerosene or soapy water and dried by blowing compressed air from the inside outward. All other parts should be cleaned with nothing stronger than household detergent. The body should be blown out to remove any remaining debris prior to reassembly. Replace the filter element and reassemble the unit.

To drain off any accumulations in the bowl, the draincock is opened by turning it in a clockwise direction. This should be done before the collected fluid reaches the lower baffle.

Components:

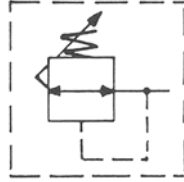
Item No.	Description	1/4"	3/8"	1/2"	3/4"	1"
1	Head	8822-1	8823-1	8824-1	8826-1	8828-1
2	Bowl O-Ring	8823-9	8823-9	8824-9	8826-9	8826-9
3	Deflector Baffle	26F-11	26F-11	27F-11	8826-5	8826-5
4A.1	40 Micron Filter Element	8823-7A	8823-7A	8824-7A	8826-7A	8826-7A
4A.2	20 Micron Filter Element	8823-7FA	8823-7FA	8824-7FA	8826-7FA	8826-7FA
4A.3	12 Micron Filter Element	8823-7XA	8823-7XA	8824-7XA	8826-7XA	8826-7XA
4B	Coalescing Element	26C-14A	26C-14A	27C-14A	8926-7	8926-7
5	Retainer Baffle	26F-13	26F-13	27F-13	8926-25	8926-25
6	Plastic Bowl & Drain Cock	8823-41L	8823-41L	8824-41L	8828-41L	8828-41L
6.1	Drain Cock O-Ring	26F-17	26F-17	26F-17	26F-17	26F-17
6.2	Removable Drain Cock	26F-18	26F-18	26F-18	26F-18	26F-18
6.3	Plastic Bowl	8823-40L	8823-40L	8824-40L	8828-40L	8828-40L
7	Bowl Guard	8823-50	8823-50	8824-50	8826-50	8826-50
8	Bowl Clamping Ring	8823-30	8823-30	8824-30	8826-30	8826-30



Repair Kit

Sight Glass Repair Kit **RK88-SG**.

We reserve the right to make engineering changes in design or materials without notification.



HEAVY DUTY REGULATOR

Installation Instructions, Operating Instructions and Parts List

Application:

The Heavy Duty Series Regulator is designed to provide lasting service and superior performance in today's demanding industrial environment. A wide variety of options and accessories make this regulator adaptable to any application.

Options and Accessories:

Options*:	Suffix
Gauge .....	.G
Low Pressure Spring (0 - 50 PSI) .....	.L
High Pressure Spring (0 - 200 PSI) .....	.H
Tamperproof .....	.K
Panel Mount .....	.P

*Add a dash followed by the suffix(es) in alphabetical order to the model number.

Accessories:	Model No.
Recommended Standard Pressure Gauge (0 - 160 PSI with 2" dial) .....	.8800-160
Recommended Low Pressure Gauge (0 - 60 PSI with 2" dial) .....	.8800-60
Recommended High Pressure Gauge (0 - 300 PSI with 2" dial) .....	.8800-300
Regulator Mounting Brackets	
1/4" - 3/8" .....	.8800-12RB
1/2" .....	.8800-14RB
3/4" - 1" .....	.8800-16RB
Wall Mount Pipe Brackets	
1/4" - 3/8" .....	.8800-22RB
1/2" .....	.8800-24RB
3/4" - 1" .....	.8800-26RB



Port Size	Model Number
1/4" .....	.8802
3/8" .....	.8803
1/2" .....	.8804
3/4" .....	.8806
1" .....	.8808

Technical Data:

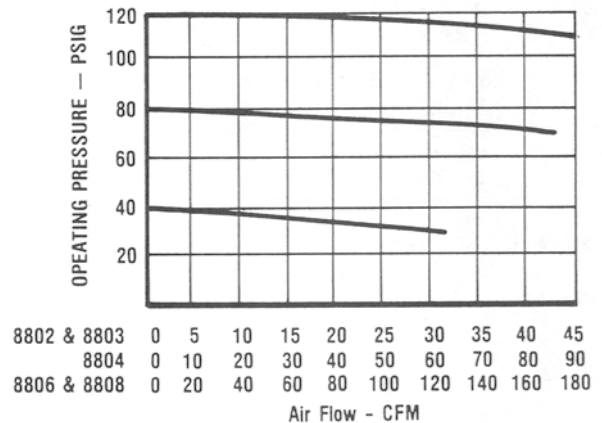
- Maximum Supply Pressure: 250 PSI
- Maximum Operating Temperature:..... 250° F
- Pressure Range:

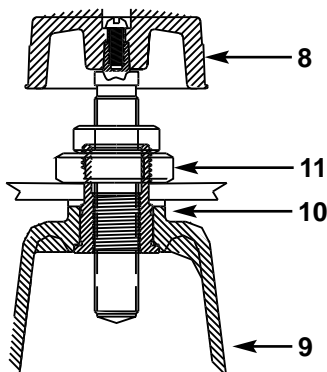
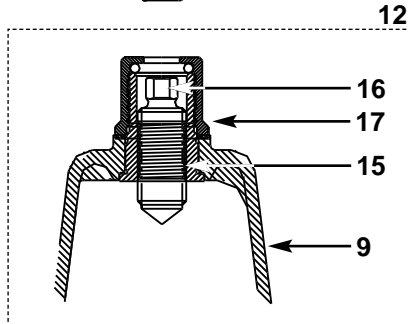
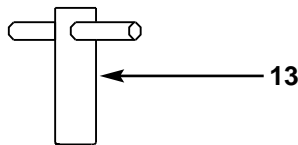
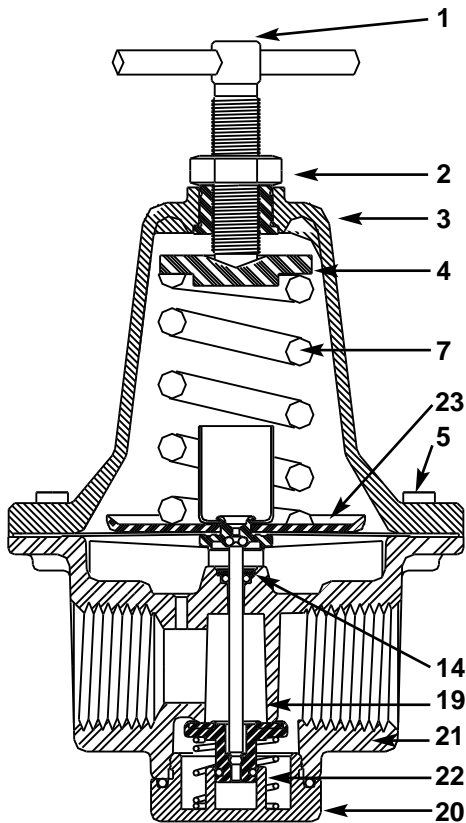
 - Standard..... 0 - 125 PSI
 - Option..... 0 - 50 PSI
 - Option..... 0 - 200 PSI

- Material: Die cast aluminum
- Dimensions and Weights:

	1/4" and 3/8"	1/2"	3/4" and 1"
Height .....	.5 1/2"	7"	.8 1/2"
Width .....	.3"	4"	.5"
Weight .....	.3/4 lb.	1 1/2" lb.	.3 lbs.

Regulator Performance Data:





Pressure Adjustment:

Turning the adjustment screw in a clockwise direction will increase the pressure setting; turning in a counterclockwise direction will decrease the pressure setting.

The downstream pressure should always be adjusted to approximately 10 PSI above the required working pressure, even in the event of pressure fluctuations. It is advisable to adjust the setting under constant pressure conditions (unit should not be operating) since a changing flow rate affects the set value.

To avoid readjustment after making a change in pressure setting, we recommend approaching the required setting from a lower pressure. When adjusting from a higher to a lower setting, reduce the pressure to a point below what is required, then adjust upward to the required setting.

Once the desired operating pressure has been reached, the adjusting screw lock nut should be tightened to maintain the proper setting.

Cleaning and Maintenance:

A clean supply of air to the regulator will assure long periods of uninterrupted service. Dirt in the stem and disc assembly will lead to erratic operation or loss of regulation. When cleaning becomes necessary, the air line should be shut off and depressurized. The regulator should be disassembled using the parts drawing on this page as a guide. All assembly parts should be cleaned with nothing stronger than mild household detergent and the regulator body should be blown out with compressed air.

For proper reassembly, the seat disc must be firmly in place and the poppet stem must fit into the center hole of the diaphragm assembly.

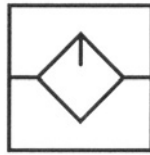
Components:

Item No.	Description	1/4" (8802)	3/8" (8803)	1/2" (8804)	3/4" (8806)	1" (8808)
1	Adj. Screw Ass'y (Std.)	8804J-12	8804J-12	8804J-12	8806J-12	8806J-12
2	Lock Nut	1484-20	1484-20	1484-20	1488-20	1488-20
3	Bonnet Ass'y (Std.)	8803-2	8803-2	8804-2	8806-2	8806-2
4	Spring Button	1483J-5	1483J-5	1484J-5	1488-5	1488-5
5	Screws	8803-23	8803-23	8804-23	8806-23	8806-23
6	Gauge Plug (not shown)	PI004S	PI004S	PI004S	PI004S	PI004S
7	Adj. Spring (5-125)	1483-7	1483-7	1484-7	1488-7	1488-7
7	Adj. Spring (1-50)	1483L-7	1483L-7	1484L-7	1488L-7	1488L-7
7	Adj. Spring (100-200)	1483S-7	1483S-7	1484S-7	1488S-7	1488S-7
8	Adj. Screw Ass'y (Panel)	8804P-12	8804P-12	8804P-12	8806P-12	8806P-12
9	Bonnet Ass'y (Panel)	8803P-2	8803P-2	8804P-2	8806P-2	8806P-2
10	Washer (Panel)	1484P-31	1484P-31	1484P-31	1488P-31	1488P-31
11	Nut (Panel)	8804P-3	8804P-3	8804P-3	1488-32	1488-32
12	Tamperproof Bonnet Ass'y	N/A	N/A	J8804-2	N/A	N/A
13	Tamperproof Adj. Key	8804-5	8804-5	8804-5	8804-5	8804-5
14	O-Ring	8803-7	8803-7	8803-7	8803-7	8803-7
15	Adj. Screw (Tamperproof)	J8804-4	J8804-4	J8804-4	J8806-4	J8806-4
16	O-Ring	7193-1	7193-1	7193-1	7193-1	7193-1
17	Cap (Tamperproof)	J8804-3	J8804-3	J8804-3	J8806-3	J8806-3
18	Guide (not shown)	N/A	N/A	N/A	8600A-18	8600A-18
19	Stem, Seat, Retainer Ass'y	8803-56	8803-56	8804-56	8806-56	8806-56
20	Back Cap	8803-3	8803-3	8804-3	8806-3	8806-3
21	Back Cap O-Ring	8803-21	8803-21	8804-21	8806-21	8806-21
22	Back Cap Spring	8804-18	8804-18	8804-18	8806-18	8806-18
23	Diaphragm Ass'y	1483-59A	1483-59A	1484-59A	1488-59A	1488-59A

Rebuilding Kit:

The Regulator Repair Kit includes items 19, 20, 21, 22, and 23. Use Model No. **8800-53** for the 1/4" and 3/8"; **8800-54** for the 1/2"; and **8800-56** for the 3/4" and 1".

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HEAVY DUTY LUBRICATOR

Installation Instructions, Operating Instructions and Parts List

Application:

The Heavy Duty Series Lubricator is designed to provide lasting service and superior performance in today's demanding industrial environment. A wide variety of options and accessories make this regulator adaptable to any application.

Options and Accessories:

Options*:	<i>Suffix</i>
Bowl Guard (for 1/4", 3/8" and 1/2" units)	R
Metal Bowl with Sightglass	M

*Add a dash followed by the suffix(es) in alphabetical order to the model number.

Accessories:	<i>Model No.</i>
<u>Bowl Guards:</u>	
1/4" and 3/8" . . . . .	.8823-50
1/2" . . . . .	.8824-50
3/4" and 1" . . . . .	.8826-50

<u>Metal Bowl with Sightglass:</u>	
1/4" and 3/8" . . . . .	.8843-41M
1/2" . . . . .	.8844-41M
3/4" and 1" . . . . .	.8848-41M
Sightglass Repair Kit . . . . .	.RK88-SG

Technical Data:

Maximum Supply Pressure:

Plastic Bowl	150 PSI
Metal Bowl	250 PSI

Maximum Operating Temperature:

Plastic Bowl	120° F
Metal Bowl	250° F

Material:

Body	Die cast aluminum
Standard Bowl	Transparent Polycarbonate
Bowl Guard	Steel
Optional Bowl	Aluminum

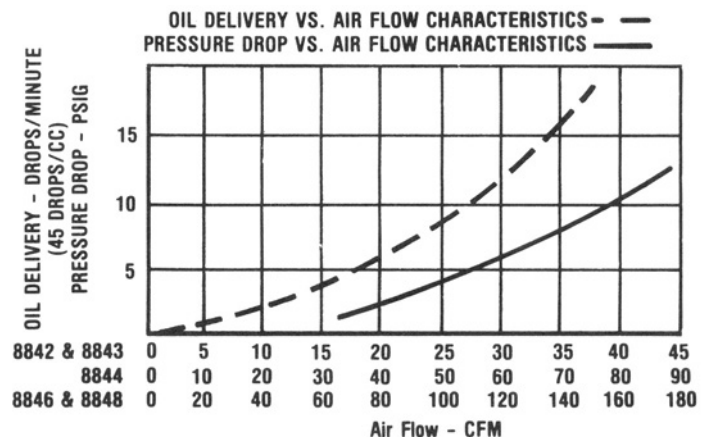
Dimensions and Weights:

	<i>1/4" and 3/8"</i>	<i>1/2"</i>	<i>3/4" and 1"</i>
Height . . . . .	.7"	.8"	.11 1/2"
Width . . . . .	.3"	3 1/2"	.5"
Weight . . . . .	.1 lb.	1 1/4" lb.	.3 1/2 lbs.



Port Size	Model Number
1/4" . . . . .	.8842
3/8" . . . . .	.8843
1/2" . . . . .	.8844
3/4" . . . . .	.8846
1" . . . . .	.8848

Performance Data:



Lubricant:

Lubricants, as recommended by the equipment manufacturer, may be used, provided they are not heavier than SAE #40 (S.U.V. 800 SEC at 100° F). *We recommend the use of Coilhose nondetergent ATL rustproofing lubricant in temperatures above 40° F. For applications between 45° F and - 45° F, we suggest Coilhose ATLW lubricant.*

Filling:

Lubricators can be filled while under pressure and without shutting down the equipment. After carefully removing the fill plug, insert the tip of a long spout oil can into the bottom of the fill port to avoid any blow back. Lubricator bowl should be filled within 1/2" from the top. The lubricator may also be filled by removing the bowl *after the system has been depressurized. Once the bowl has been filled and replaced, be sure it is locked into position before repressurizing the system.*

Adjustment:

When the adjustment knob is turned completely clockwise, oil is not being delivered through the system and the equipment is not being lubricated. The adjusting knob should be set to the desired drip rate after the air has been turned on and flowing. By turning the adjustment knob in a clockwise direction, the oil feed rate is decreased. Although proper lubrication is determined through demand and experience, a good starting point is one to two drops per minute. To check lubrication rate, we suggest the following: Hold a piece of cardboard at the exhaust hole of the component in the least favorable position (farthest away from the lubricator or in the highest position). After the unit has run for about 100 strokes, an oil film on the cardboard will indicate the setting is correct. If the oil film on the cardboard runs, the setting is too high. In order to prevent gumming, it is preferable to add too little rather than too much oil.

Cleaning and Maintenance:

The lubricator will provide long periods of uninterrupted service as long as both the air and oil supplies are kept clean and the oil level is kept above the end of the feed tube in the bowl. Failure of oil to drip through the sight dome, regardless of the position of the adjusting knob, indicates that cleaning is required. The lubricator does not need to be removed from the air line for cleaning. *Depressurize the air line* and disassemble the lubricator using the appropriate parts drawing on this page as a guide. Cleaning is normally needed only in the oil metering area. After unscrewing the sight dome assembly, *clean all components with warm water and mild household detergent only.* The bowl is removed by depressing the safety tab on the locking ring and, by rotating it slightly and pulling downward, the clamp is separated from the head of the unit. The bowl can then be removed from the lubricator head assembly with slight downward force.

Components:

Item No.	Description	1/4" (8842)	3/8" (8843)	1/2" (8844)	3/4" (8846)	1" (8848)
1	Tamperproof Cap	8742-31A	8742-31A	8742-31A	8742-31A	8742-31A
2	Sight Dome/Adj. Screw	8742-32A	8742-32A	8742-32A	8742-32A	8742-32A
3	Dome "O" Ring	26L-12	26L-12	26L-12	26L-12	26L-12
4	Fill Plug	8844-10	8844-10	8844-10	8844-10	8844-10
5	Fill Plug "O" Ring	30-6101	30-6101	30-6101	30-6101	30-6101
6	Spring Washer	8742-42A	8742-42A	8742-42A	8742-42A	8742-42A
7	Drip Spout	8742-33A	8742-33A	8742-33A	8742-33A	8742-33A
8	Drip Spout "O" Ring	84699-30	84699-30	84699-30	84699-30	84699-30
9	Head Ass'y	8842-55	8843-55	8844-55	8846-55	8848-55
10	Bowl "O" Ring	8823-9	8823-9	8824-9	8826-9	8826-9
11	Clamping Ring Ass'y	8823-30	8823-30	8824-30	8826-30	8826-30
12	Air Check Ball	26L-19	26L-19	26L-19	26L-19	26L-19
13	Air Check Stud	26L-20	26L-20	26L-20	26L-20	26L-20
14	Poly Bowl - Guard Ass'y	8843R-41L	8843R-41L	8844-41L	--	--
15	Feed Tube	8844-5S	8844-5S	8844-5L	8844-5XL	8844-5XL
16	Poly Bowl	8843-41L	8843-41L	8844-41L	8848-41L	8848-41L
17	Metal Bowl	8843-41M	8843-41M	8844-41M	8848-41M	8848-41M
18	Metal Bowl Guard	8823-50	8823-50	8824-50	8826-50	8826-50

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