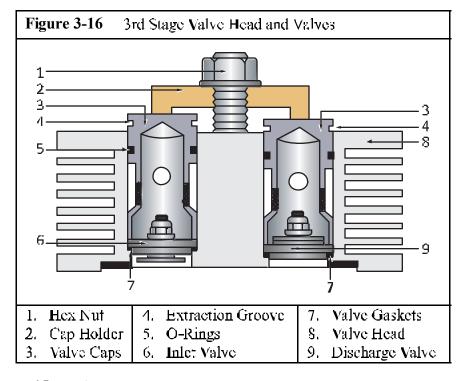


4. Serew on hex nut (1) and tighten with a torque wrench to the torque value listed in the Appendix.

### 3.1.6.6 Changing the 3rd Stage Valves

See Figure 3-15



#### 3.1.6.6.1 Removal Procedure

- 1. Unscrew and remove hex nut (1).
- 2. Remove cap holder (2).
- 3. Insert two screwdrivers into the extraction grooves (4) of the valve caps (3) and lift out the valve caps with O-Rings (5).
- 4. Check and replace O-Rings if required.
- 5. Take out valves (6 & 9).
- 6. Check the valve gaskets (7) and replace if required.

### 3.1.6.6.2 Installation Procedure

- 1. Fit valves(6 & 9) with gaskets (7) and replace.
- 2. Fit valve caps (3) with O-Rings (5) and replace.
- 3. Replace cap holder (2) in the proper position.



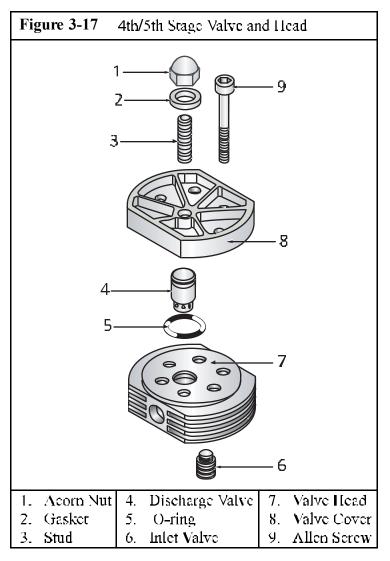
### **CAUTION**

The valve cap for the inlet valve protrudes 0.98 in (2.5 mm) out of the valve head more than the valve cap for the discharge valve. The cap holder is designed accordingly.



- 4. Serew on hex nut (1) and tighten with a torque wrench to the torque value listed in the Appendix.
- 3.1.6.7 Changing the 4th 5th Stage Valves.



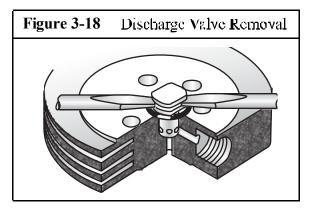


# **3.1.6.7.1** Discharge Valve Removal Procedure See Figure 3-17

- 1. Remove piping connected to the Valve Head.
- 2. Remove Acorn Nut (1) and unserew Stud (3) three or four turns.
- 3. Remove the Socket Head Screws (9) and remove the Valve Cover (8).
- 4. Loosen the Discharge Valve (5) first by turning it with a 13 mm wrench on the flat surfaces.
- 5. Put two screwdrivers into the groove of the Discharge Valve body. See Figure 3-18.



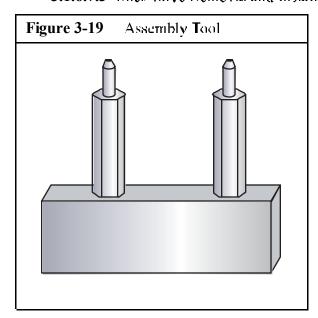
6. Lift out Discharge Valve together with the O-ring (4).

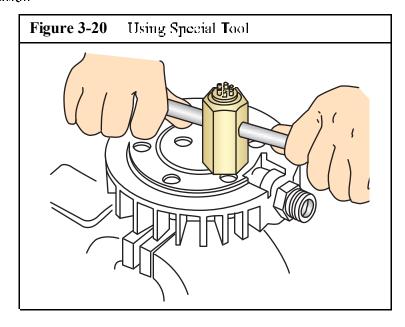


### **3.1.6.7.2** Discharge Valve Installation Procedure

- 1. Check condition of O-ring (4) and replace if necessary
- 2. Put O-ring (4) into Valve Head (7).
- 3. Insert Discharge Valve (5) into Valve Head (7).
- 4. Put on Valve Cover (8).
- 5. Screw in Socket Head Screws (9) and tighten with a torque wrench.
- 6. Tighten Stud (3) and replace Gasket (2).
- 7. Tighten Acorn Nut (1) with a torque wrench to the value listed in the Appendix.

#### **3.1.6.7.3** Inlet Valve Removal and Installation





1. If the assembly tool shown in Figure 3-19 is unavailable, place two 8 mm diameter metal pins of any length in the holes of the Valve Head (7) and secure them in a vise with the Inlet Valve (6) facing up.



2. Unserew the Inlet Valve (6) from the Valve Head (7) using the special valve tool. See Figure 3-20.



### **CAUTION**

Avoid damaging the special tool or the valve when using the tool, ensure that it is pushed firmly and properly into the sockets in the valve so that it will not tilt when it is turned.

### 3.1.7 Repair and Troubleshooting

### **3.1.7.1** Repair

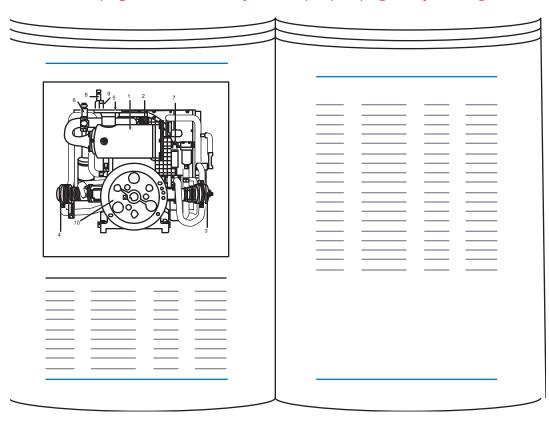
Repair work can be carried out on the compressor block to a certain extent but a certain level of experience and skill is necessary. It should be noted however that no repair should be carried out on the crankshaft nor on the bearings and safety valves are not repaired but always replaced.



### 3.1.7.2 Troubleshooting

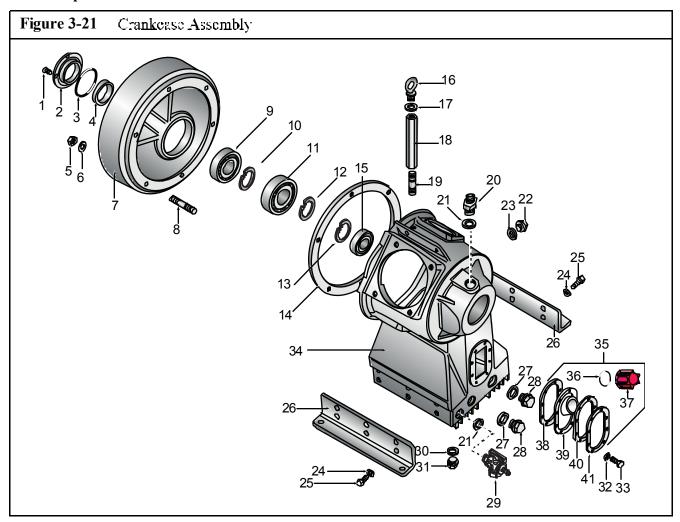
Trouble	Cause	Remedy
No oil pressure	1. Low oil level 2. Air trapped in oil pump. 3. Compressor rotates in the wrong direction	1. Check oil level 2. Vent Oil Pump 3. Reverse two of the three phase leads at the switch box.
Oil foam in crankcase	Last stage piston worn     Last stage pressure valve     defective	1. Operate compressor with final stage valve head removed. If oil flows continuously out of cylinder, replace piston and sleeve.  2. Replace last stage valves.
Compressor output insufficient	<ol> <li>Condensate drain valves or fittings leaking.</li> <li>Premature opening of final safety valve.</li> <li>Piston rings worn</li> <li>Excessive piston clearance</li> <li>Pipes leaking</li> </ol>	<ol> <li>Tighten and reseal.</li> <li>Clean and adjust final safety valve.</li> <li>Replace</li> <li>Replace</li> <li>Tighten</li> </ol>
Safety valves between stages releasing pressure	Interstage pressure too high     Valves not closing property	Service and clean valves.     Service and clean valves.
Compressor running too hot.	<ol> <li>Insufficient supply of cooling air</li> <li>Intake or outlet valve not closing properly</li> <li>Wrong direction of rotation.</li> </ol>	<ol> <li>Check location for adequate ventilation</li> <li>Check and clean valves, replace as necessary</li> <li>Check arrow on compressor and correct accordingly.</li> </ol>
Oil residue in delivered air	Improper maintenance of filters, purifier cartridge saturated.	Service filters, change puri- fier cartridge.
Compressor rotates in the wrong direction	Electrical phases not connected properly	Reverse two of the three phase leads at the switch box. Do NOT change the leads at the motor terminal,

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### 3.1.8 Replacement Parts List



Item	Qty	Part No.	Description	Notes	
•	1	78577	Crankcase Assembly		
1	4	N20649	Screw		
2	1	68586	Cover Plate		
3	1	N15093	O-ring		
4	1	N26281	Shaft Scal		
5	6	N370	Self Locking Hex Nut		
6	6	N58	Washer		
7	l	78897	Bearing Cover		
8	6	N3138	Stud		
9	1	N18303	Roller Bearing		
10	1	N3810	Circlip		
11	1	N18304	Roller Bearing		
12	1	N18432	Circlip		
13	1	N2635	Circlip		



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N102 N19497

78578

78810

80225

78808

78569

80617

78570

N15412



Fig	gure 3-	21 (cont.)	Crankease Assembly		
Item	Qty	Part No.	Description	Notes	
14	1	3177	Gasket		
15	1	N2638	Roller Bearing		
16	1	N4467	Eye Bolt		
17	1	1492	Washer		
18	1	79225	Hexagonal Spacer		
19	1	N4150	Stud		
20	1	80197	Reducer		
21	2	N293	Gasket		
22	1	N204	Plug		
23	1	N1314	Gasket		
24	12	N16	Washer		
25	12	N312	Hex Head Screw		
26	2	78571	Bracket		
27	2	N4261	Gasket		
28	2	N2796	Plug		
29	1	N25638	Ball Valve	oil drain	
30	1	N1316	Gasket		
31	1	N4570	Plug		

Washer

O-ring

Gasket

Oil Fill

Steel Plate

Steel Plate

Plug

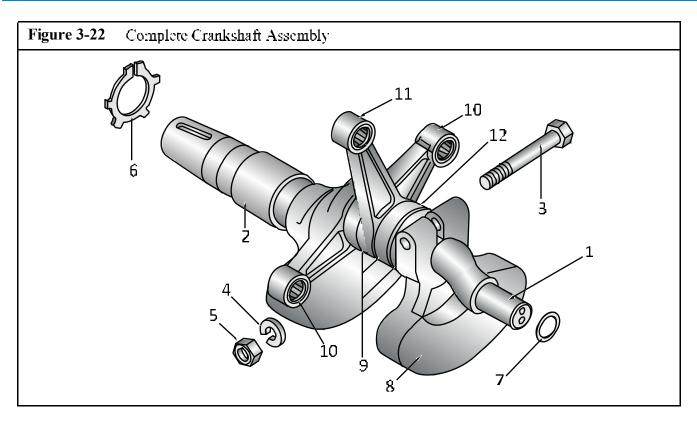
Hex Screw

Crankcase

Oil Sight Gauge Assembly

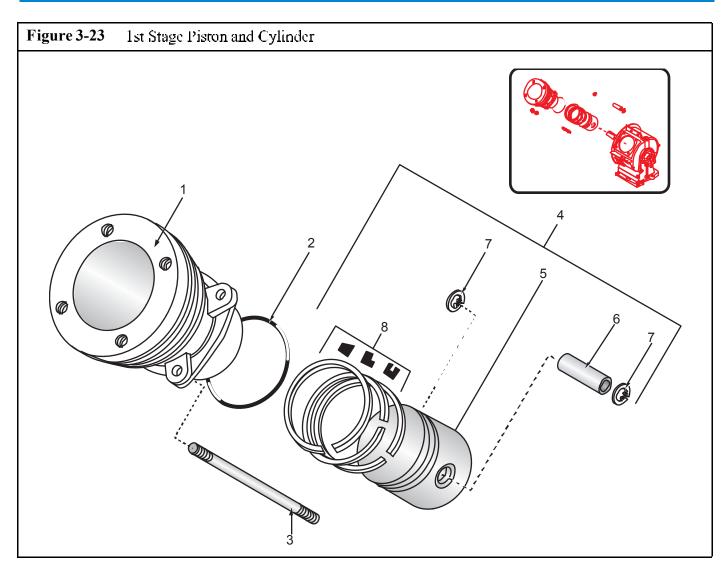
Items 36 - 41





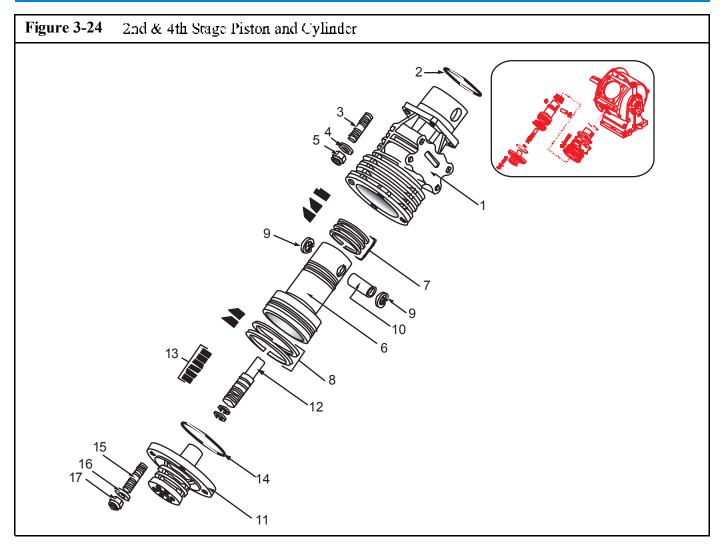
Item	Qty	Part No.	Description	Notes
•	1	161929	Crankshaft Assembly	
1	1	78936	Crankshafi	
2	1	68587	Bushing	
3	1	N4366	Dowel Screw	
4	1	N108	Spring Washer	
5	1	N2765	Hex Nut	
6	1	N18310	Circlip	
7	1	N123	Circlip	
8	÷		Counterweight	Available only with 161929
9	3	4220	Spacers	
10	<b>'</b> }		Piston Rod Assembly	Available only with 161929
11	' <b>;</b> '		Piston Rod Assembly	Available only with 161929
12	· <b>;</b>		Piston Rod Assembly	Available only with 161929





Item	Qty	Part No.	Description	Notes	
+	1	79120	1st Stage Piston and Cylin	der Assembly	
1	1	79017	Cylinder	-	
2	1	N2621	O-ring		
3	4	N26036	Stud		
_	1	79720	Piston Assembly	<i>45</i> – 8	
5	1	79719	Piston	130 mm	
6	1	N2930	Piston Pin		
7	2	N484	Circlip		
8	1	N2963	Piston Ring Set		





Item	Qty	Part No.	Description	Notes
<b>*</b>	1	127813	2nd Stage Cylinder Assembly	Items 1 – 10
1	1	127812	Cylinder	
2.	1	N3731	O-ring	
3	4	<b>N</b> 215	Stud	
4	4	N58	Washer	
5	4	<b>N</b> 370	Self Locking Hex Nut	
•	1	127779	Stepped Piston Assembly	Items 6 - 10
6	1	127778	Stepped Piston	88 66 mm
7	1	N3162	Piston Ring Set	
8	1	N34414	Piston Ring Set	
9	2	N1665	Circlip	
10	1	N15409	Piston Pin	
•	1	161335	4th Stage Cylinder Assembly	Items 11 - 17
11	1	161316	Cylinder	
•	1	078338	4th Stage Piston Assembly	Items 12 & 13

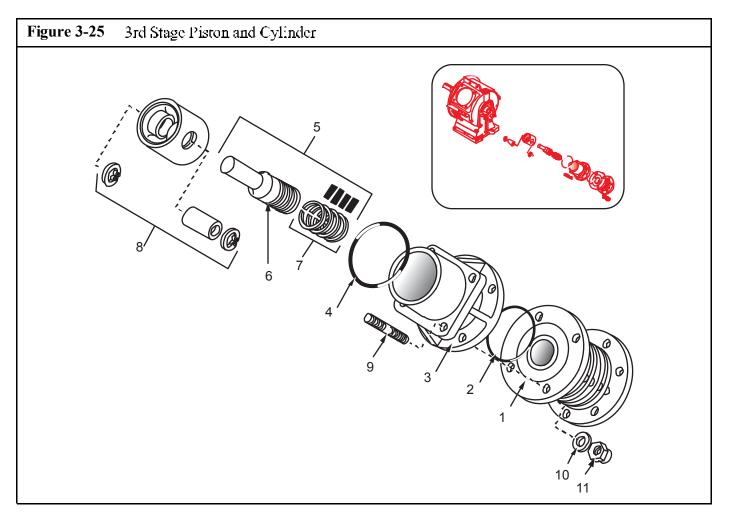




Figure 3-24 (cont.)	2nd and 4th Stage Piston and Cylinder
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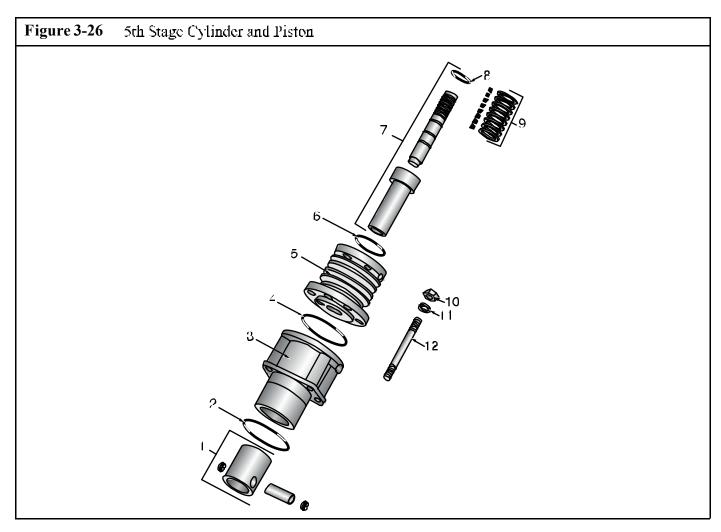
Item	Qty	Part No.	Description	Notes	
12	1	78337	Piston		
13	1	N35556	Piston Ring Set		
14	1	N29082	O-ring		
15	4	N215	Stud		
16	4	N58	Washer		
17	4	N370	Self Locking Hex Nut		





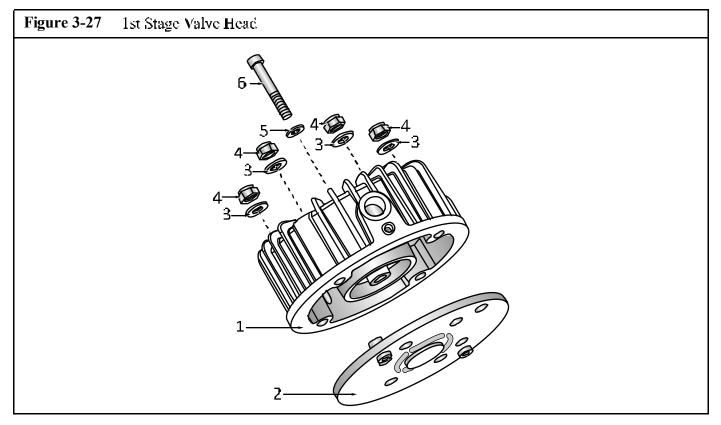
Item	Qty	Part No.	Description	Notes
•	1	068595	3rd Stage Piston and Cyline	er Assembly
1	l	67061	Cylinder	
2	1	N7063	O-ring	
3	1	82.295	Guide Cylinder	
1	1	N3731	O-ring	
5	1	070013	Piston Assembly	Items 6 and 7
6	1	N4378	Piston	
7	1	N16313	Piston Ring Set	
8	1	070070	Guide Piston Assembly	
ŋ	4	N17462	Stud	
10	4	N58	Washer	
11	4	N370	Self Locking Hex Nut	





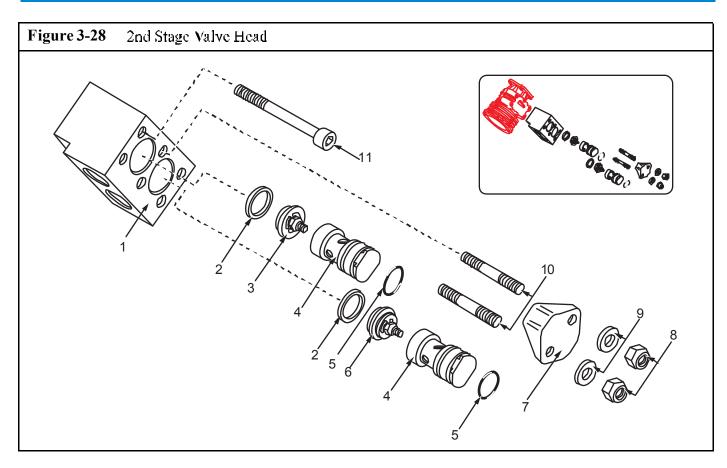
Item	Qty	Part No.	Description	Notes
•	1	161926	5th Stage Piston & Cylinder Assemb	ly
4	1	070070	Guide Piston Assembly	
2	1	N3731	O-ring	
3	1	82295	Guide Cylinder	
_	1	<b>N</b> 7063	O-ring	
5	1	82480	Cylinder	
6	1	N4868	O-ming	
7	1	79185	Piston And Sleeve Assembly	Hems 8 & 9
8	1	N23755	O-ring	
9	1	N26412	Piston Ring Set	
10	4	N370	Self Locking Hex Nut	
11	4	N58	Washer	
12	4	N17462	Stud	





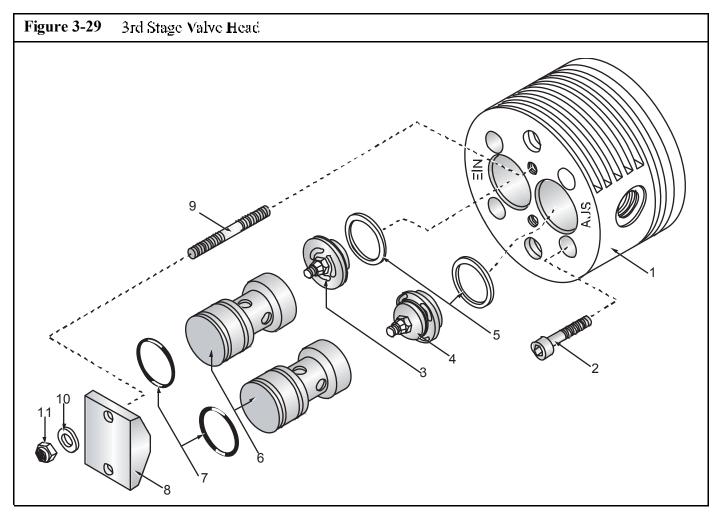
Item	Qty	Part No.	Description	Notes
•	1	79680	1st Stage Valve Head Assembly	
1	†		1st Stage Valve Head	
2	1	N26029	Plate Valve	
3	4	N16	Washer	
4	4	N644	Self Locking Hex Nut	
5	1	N58	Washer	
6	1	N150	Allen Screw	





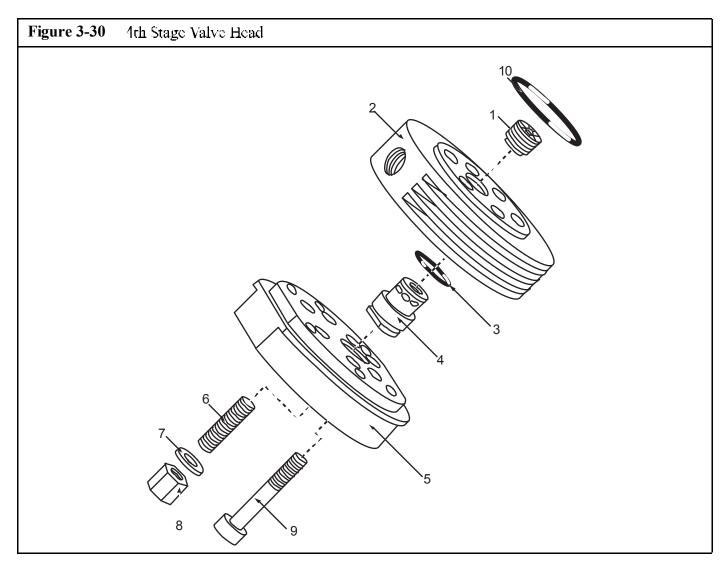
Item	Qty	Part No.	Description	Notes
•	1	068601	2nd Stage Valve Head Assembly	
•	1	68491	Valve Head	
2	2	56668	Gasket	
3	l	N4067	Intake Valve	
1	2	56183	Valve Cap	
5	2	N3997	O-ring	
6	1	N4068	Prossure Valve	
7	1	62924	Press Pad	
ጸ	2	<b>N</b> 3474	Self Locking Hex Nut	
9	2	<b>N</b> 16	Washer	
10	2	N4190	Stud	
11	4	N354	Allen Screw	





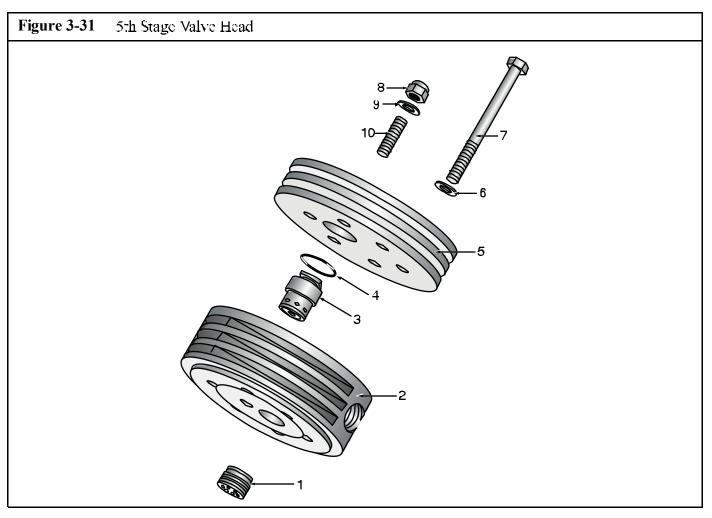
Item	Qty	Part No.	Description	Notes
•	l	068602	3rd Stage Valve Head Assembly	
1	1	60583	Valve Head	
2	6	N503	Allen Serew	
3	1	N15273	Intake Valve	
4	1	N15274	Pressure Valve	
5	2	56668	Gasko.	
6	2	56183	Valve Cap	
7	2	N3997	O-ring	
8	1	62924	Pressure Pad	
ŋ	2	N4190	Stud	
10	2	N16	Washer	
11	2	N3474	Self Locking Hex Nut	





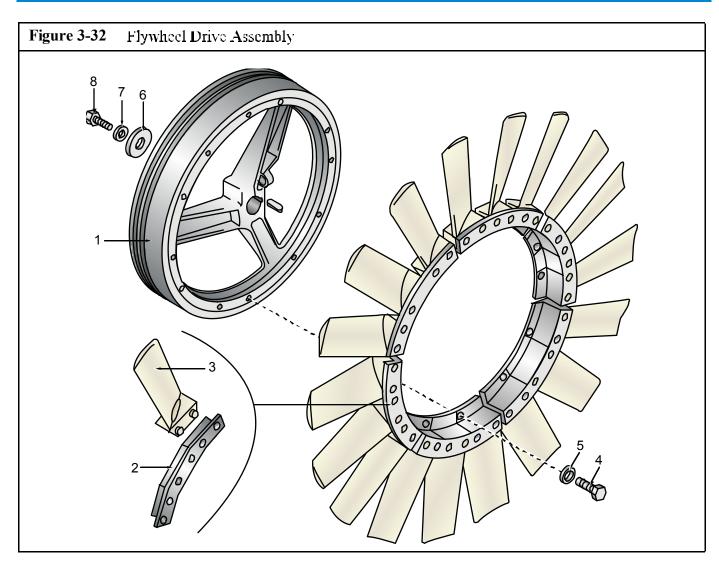
Item	Qty	Part No.	Description	Notes	
•	1	071621	4th Stage Valve Head Assembly	Items 1-10	
•	1	073629	Valve Head Assembly	Hems 1-8	
4	1	07790	Intake Valve		
2	1	65191	Valve Head		
3	1	N2789	O- <del>ni</del> ng	O-ring	
_	1	014121	Pressure Valve		
5	1	14118	Valve Head Cover		
6	1	71065	Stud		
7	1	N3625	Gasket		
8	1	N3623	Nut		
9	6	N19554	Allen Screw		
10	1	N3860	()-ring		





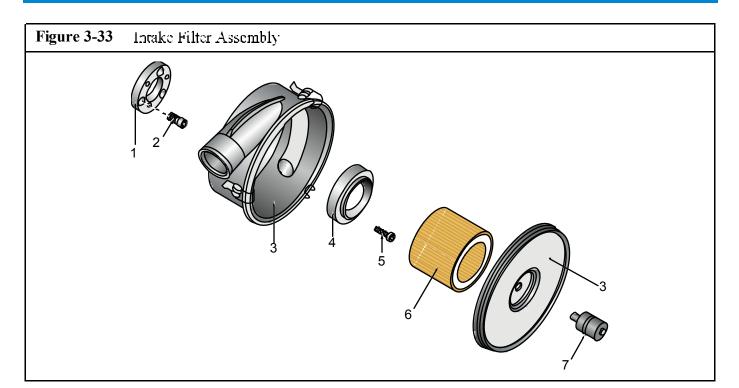
Item	Qty	Part No.	Description	Notes
•	l	082096	5th Stage Valve Head Assembly	
1	1	081409	Intake Valve	
2	1	082087	Valve Head	
3	1	014121	Discharge Valve	Includes Item 4
4	1	N2789	O-ring	
5	1	082086	Valve Head Cover	
6	6	N58	Washer	
7	6	N17730	Hex Head Bolt	
8	1	88609	Acorn Nut	
g	1	N3625	Gasket	
10	1	N124608	Stud	





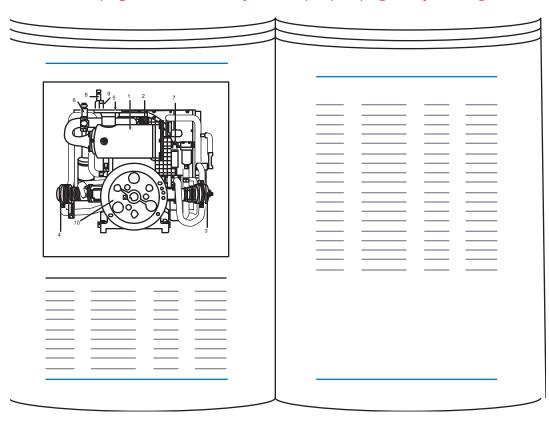
Item	Qty	Part No.	Description	Notes
•	1	161475	Flywheel Drive Assembly	Banded
	1	129360-RA L9010	V-belt Pulley	
2.	6	128837	Fan Blade Support	
3	18	79239	Blade, Fan CCW	
_	36	N19508	Hex Head Screw	M6 x 16
5	36	WAS-0029	Washer, Split Lock	6 mm
6	1	68646	Washer	
7	1	WAS-0002	Washer, Split Lock	
8	1	N19523	Hex Head Cap Screw	



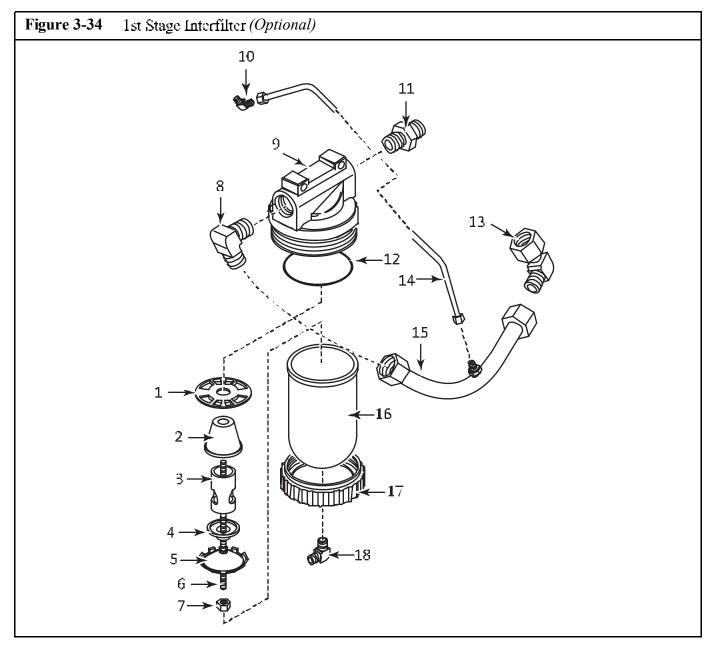


Item	Qty	Part No.	Description	Notes	
•	1	079706	Intake Filter Assembly		
1	1	79679	Manifold, Air Intake		
2	3	N171	Socket Head Cap Screw		
3	1	88797	Housing, Intake Filter		
4	1	79464	Flange		
5	3	N19535	Allen Screw		
6	1	N25886	Element, Intake Filter		
7	1	N2221	Indicator, Maintenance		

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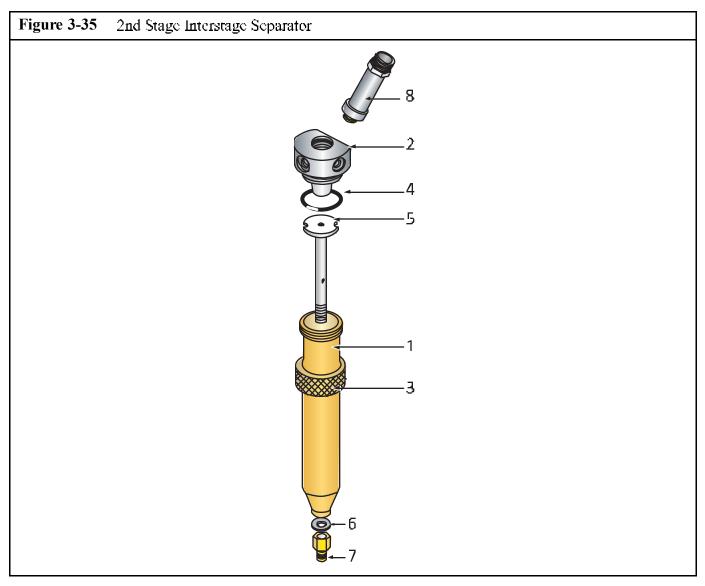
Item	Qty	Part No.	Description	Notes	
•	1	160918	1st Stage Interfilter Assembly		
1	1	N2484	Distributing Plate		
2	1	N2483	Baffle Funnel		
3	1	61751	Tube		
4	1	N2480	Baille Plate		
5	1	N2479	Baffle Washer	Baffle Washer	
6	1	N3677	Stud		
7	1	N1042	Hex Nut, Self Locking		
8	1	N20304	Screwed Socket, Elbow		





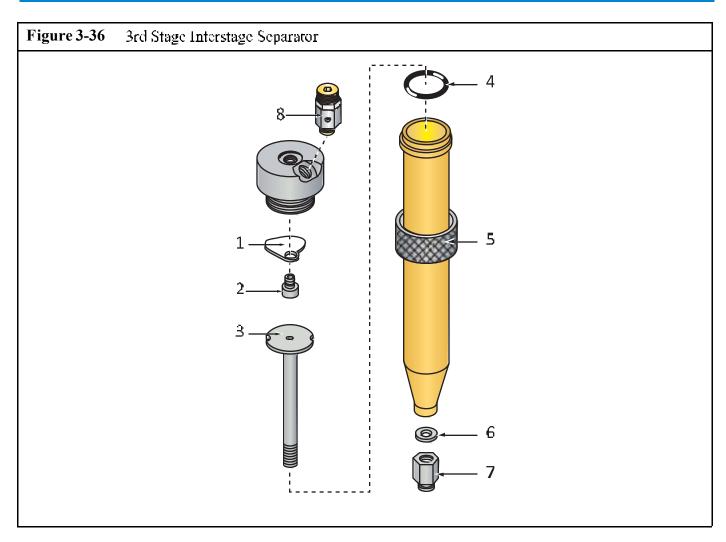
Fig	Figure 3-34 (cont.)		1st Stage Interfilter (Optional)	
Item	Qty	Part No.	Description	Notes
9	1	80261	Interfilter	includes #1-7, 12, 16 & 17
10	1	N20058	Screwed Socket, Elbow	
11	1	N20075	Straight Male Socket	
12	1	N19122	()-ring	
13	1	N20485	Adjustable Screwed Socket	
14	1	83505	Connecting Tube Assembly	
15	1	83503	Connecting Tube Assembly	
7.6	1	N22 <b>9</b> 66	Separator	
17	1	N3511	Screw Cap	
1.8	1	N20207	Screwed Socket, Hibow	





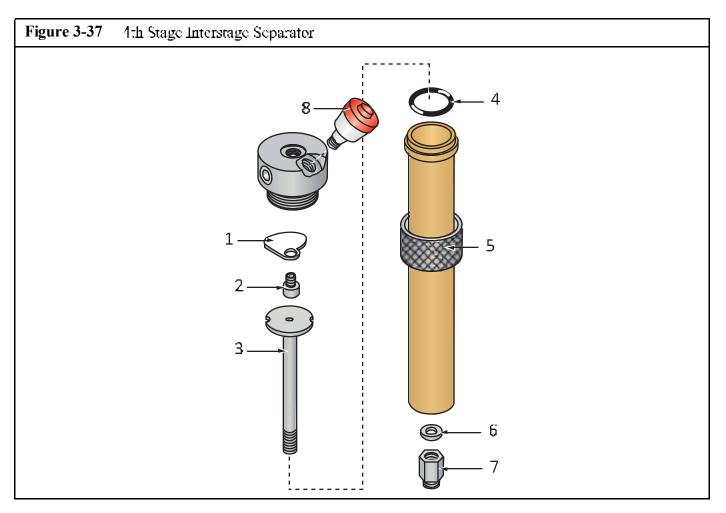
Item	Qty	Part No.	<b>Description</b> Notes		
•	1	077387	Interstage Separator Assembly		
1	<b>†</b>		Filter Housing	Available only with 077387	
2	÷		Filter Head	Available only with 077387	
3	1	13937	Collar, Threaded Knurled		
1	1	N3556	O-ring		
5	1	76613	Tube and Baffle	Tube and Baffle	
6	1	N1316	Gasket		
7	1	N20215	Fitting		
ጸ	1	081810	Safety Valve		





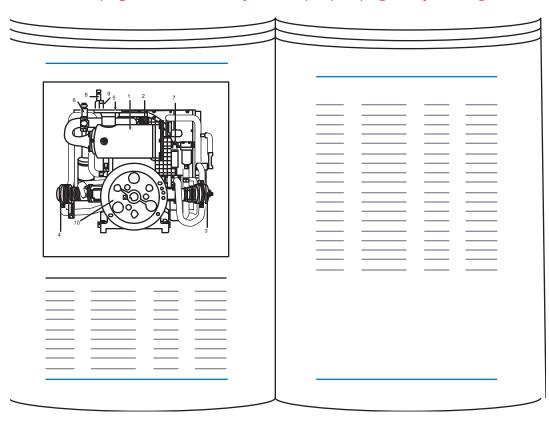
Item	Qty	Part No.	Description	Notes	
•	l	081798	Interstage Separator Assembly		
4	1	0811/8	Plate		
2	1	081643	Hollow Screw	Hollow Screw	
3	1	076613	Inset Assembly		
_	1	N3556	O-ring		
5	1	013937	Knurled Ring	Knurled Ring	
6	1	N1316	Gasket		
7	1	N20215	Fitting		
8	1	012886	Safety Valve		



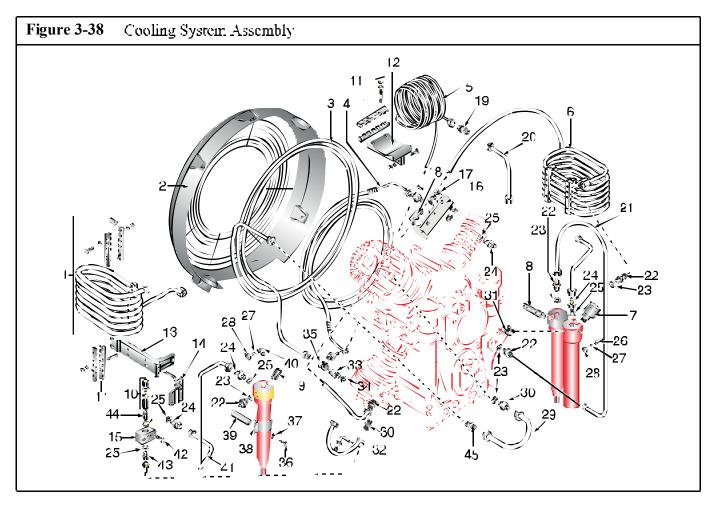


Item	Qty	Part No.	Description	Notes	
•	1	081130	Interstage Separator Assembly		
1	1	081148	Plate		
2	1	081643	Hollow Screw	Hollow Screw	
3	1	081172	Inset Assembly		
1	1	N3556	O-ring		
5	1	069173	Knurled Ring	Knurled Ring	
6	1	N1316	Gasket		
7	1	N20215	Fitting		
8	1	065410-180	Safety Valve		

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Item	Qty	Part No.	Description	Notes
•	1	79916	Cooling System Assembly	
1	1	79961	3rd Stage Intercooler	
2	1	060709	Fan Screen	
3	1	79967	1st stage Intercooler	
4	1	79936	Aftercooler	
5	1	79963	4th Stage Intercooler	
6	1	79957	2nd Stage Intercooler	
7	1	065410-180	Safety Valve, 4th Stage	180 bar
8	1	081810	Safety Valve, 2nd Stage	24 bar
9	1	012886	Safety Valve, 3rd Stage	80 bar
10	1	083274	Safety Valve, 1st Stage	6 bar
11	4		Bracket Assembly	each consisting of:
_	2	62773	Bracket	
	2	N3494	Stud	
	2	N102	Washer	
	2	N1012	Self Locking Hex Nut	
12	1	68889	Bracket	

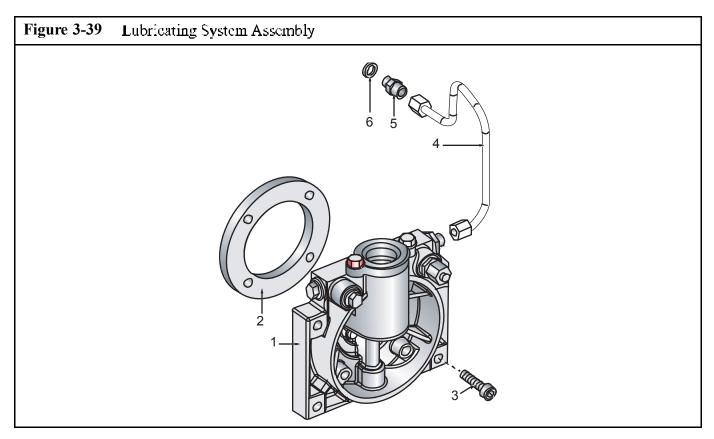




Figure 3-38 (cont.)	Cooling System Assembly
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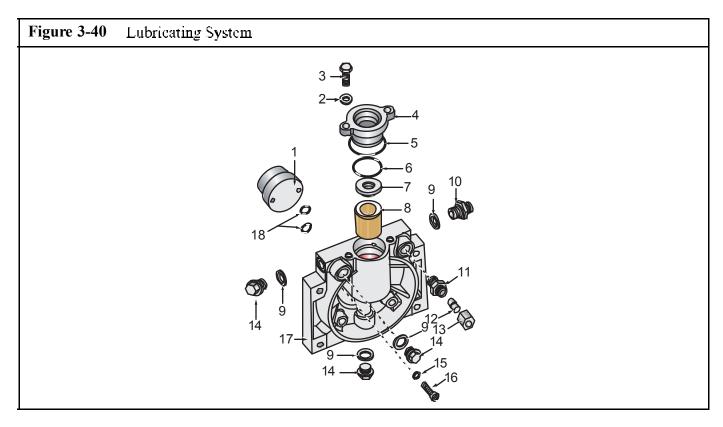
Item	Qty	Part No.	Description	Notes
1.3	2	60751	Mounting	
14	1	60716	Mounting	
15	1	60717	Support	
16	4	79637	Bracket	
17	3	71 <b>195-M</b>	Clamp	
18	9	60694-M	Clamp	
19	1	N20310	Connector	
20	1	81240	Connecting Tube	
21	1	070079	Connecting Tube	
2.2	5	N20231	Straight Male Coupling	
23	5	N293	Gaskot	
24	4	N20059	Fitting	
25	6	<b>N</b> 1316	Gasket	
26	1	N20008	Tee Coupling	
27	2	N4530	Plug	
28	2	N7430	Screw Cap	
29	1	79919	Connecting Tube	
30	1	N20060	Connector	
31	1	N22719	Elbow	
32	1	070043	Connecting Tube	
33	1	71598	Connector	
34	1	56983	Gasket	
35	1	N20200	Elbow	
36	4	N171	Allen Screw	
37	8	N58	Washer	
38	3	57070	Tube Clamp	
39	1	69016	Hex Stud	
10	1	N20003	Elbow	
<b>∠</b> ¹.	1	070080	Connecting Tube	
∠2	2	N724	Allen Screw	
43	1	N20014	Connector	
4	1	N20201	Connector	
<b>4</b> 5	1	N20312	Straight Male Connector	





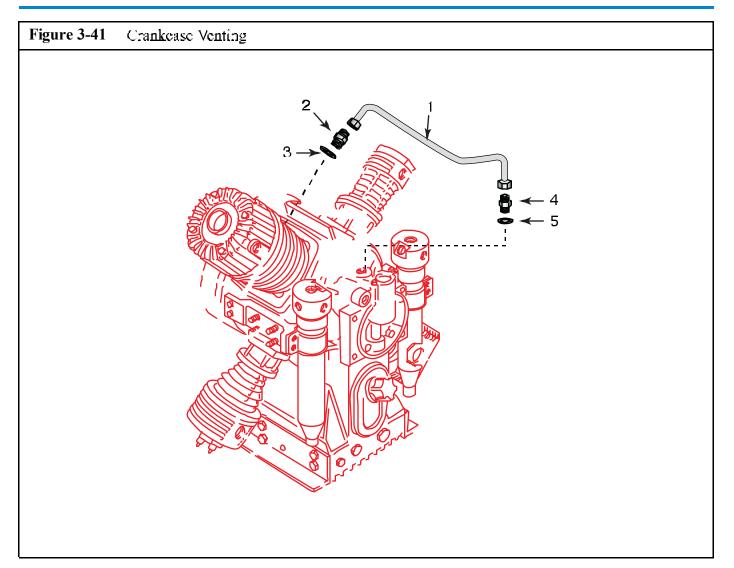
Item	Qty	Part No.	Description	Notes
•	1	84381	Lubricating System Assembly	
1	1	080345	Lubricating System	See next Figure
2	1	78421	Gasket	
3	4	N123	Socket Head Screw	
4	1	84382	Connecting Tube Assembly	
5	1	N20002	Connector	
6	1	N4501	Gaskot	





Item	Qty	Part No.	Description	Notes
•	1	080345	Lubricating System	
•	1	N24585	Gear Pump	
2	2	N58	Washer	
3	2	N19506	Hex Head Screw	
_	1	77885	Oil Filter Cover	
5	1	N04058	O-ring	
Ğ	1	N25327	O-ring	
7	1	77771	Rubber Gasket	
8	1	N25326	Filter Element	
9	4	<b>N</b> 1316	Gaskei	
10	1	81050	Regulating Valve	
11	1	N20065	Straight Male Connector	
1.2	1	N16309	Plug	
1.3	1	N1049	Screw Cap	
14	3	N52	Plug	
15	2	N2889	Gasket	
16	2	N634	Socket Head Screw	
17	1	077878	Oil Pump Case	
18	2	N3489	()-ring	





Item	Qty	Part No.	Description	Notes
•	1	128426-KD	Crankcase Vent Assembly	
1	1	078918	Connecting Tube Assembly	
2	1	N20188	Male Connector	
3	1	N842	Gasket	
4	1	N20014	Male Connector	
5	1	N1316	Gasket	



### 3.2 Automatic Condensate Drain System; ASY-4002

### 3.2.1 Description

The automatic condensate drain (ACD) system may not be on all units. It must be requested at time of ordering. The ACD system operates electropheumatically and is comprised of the following:

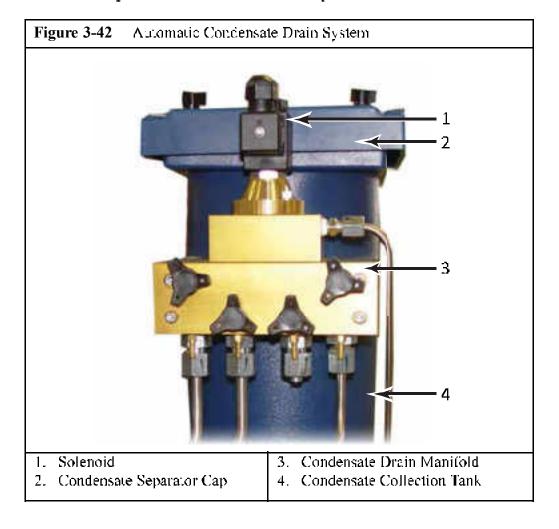
A condensate manifold

An electrically controlled solenoid

A condensate collector tank

A programatic condensate drain valve A condensate separator

The automatic condensate drain system drains the interstage and final separators every 15 minutes during operation. Additionally the automatic condensate drain system unloads the compressor during the starting phase and drains these separators at shutdown of the compressor unit.



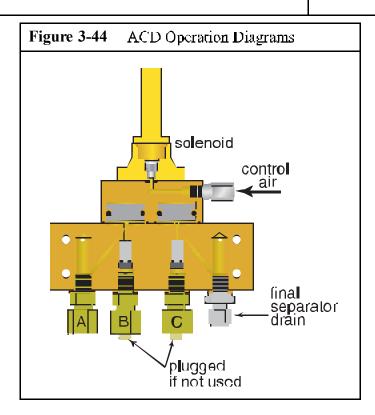


### 3.2.2 120 II Block Regulator Assembly

The 120 II block requires a regulator assembly to supply control Gas gas to the ACD drain valve. The regulator assembly consists of a pressure gauge, regulator and a safety valve.

Figure 3-43 120 II Block Regulator Assembly

1. Regulator 2. Safety Valve 3. Pressure Gauge



### 3.2.2.1 ACD Operation

The ACD valve operates with control Gas from the first stage cylinder on 3 stage compressors and from the second stage cylinder on 4 & 5 stage compressors. Upon starting the compressor, the control Gas closes both drain valves. The PLC controls the solenoid which vents the control Gas, allowing the drain valves to release and drain. The standard setting is to open the drain valves every 15 minutes for approxi-



mately 10 seconds. The drain valve on the same side as the control Gas is the final separator drain. (See Figure 3-44)

On 3 stage compressors ports **B** and **C** are plugged. Port **A** drains the 2nd stage separator.

On 4 stage compressors Port C is plugged. Port A drains the 3rd stage separator and port B drains the 2nd stage separator. A check valve is installed in port B preventing the second stage from draining until the 3rd stage has drained down to a pressure lower than the pressure of the second stage.

On 5 stage compressors no plugs are installed. Port **A** drains the 3rd stage separator, port **B** drains the 2nd stage separator and, and port **C** drains the 4th stage separator. Port **C** like port **B** has a check valve installed preventing it from draining until the final separator has drained lower than the pressure in the 4th stage separator.

### 3.2.2.2 Start Unloading

The unloading of the compressor during the starting phase is possible because of the lack of control Gas immediately upon starting the unit. As the unit is switched on the solenoid is energized and closes. After the compressor has attained nominal speed, pressure builds in the interstage separators and the control Gas closes the condensate drain valves. Once these valves close, the compressor delivers to the consuming device.

### 3.2.2.3 Standstill Drainage

At compressor shutdown, the solenoid is de-energized and opens. This drains the condensate and relieves the pressure in the interstage and final separators.

### 3.2.2.4 Condensate Drain Separator

The condensate drainage is a mixture of oil, water and Gas. The Condensate Drain Separator is utilized to separate the oil and water from the Gas. The oil and water is then piped to the Condensate Collector Bot-lie where the oil and water mixture is stored until it can be disposed of properly.

#### 3.2.3 ACD Maintenance

The condensate drain valves are provided with manual drain valves to verify correct operation of the automatic system.

The automatic condensate drain system must be serviced once a week as follows:

- 1. Open all manual drain valves one after the other.
- 2. Observe the drainage of condensation.
- 3. If the system drains more than 2 ounces of liquid per stage, either the system or the corresponding condensate drain valve is not working properly.
- 4. Find the fault and remedy accordingly.
- 5. If little or no condensation emerges, the automatic system is operating properly.
- 6. The condensate collection bottle should be emptied regularly. Due care must be taken to ensure that any oil which is drained with the condensate is disposed of properly. Check local, State and Federal regulations.

If the ACD valve is not functioning properly, a repGas kit, KIT-0377, is available through our parts department. The repGas kit comes with O-rings, gaskets, and other components that may were down from excessive use. A clear diagram and instructions are also included in the repGas kit.

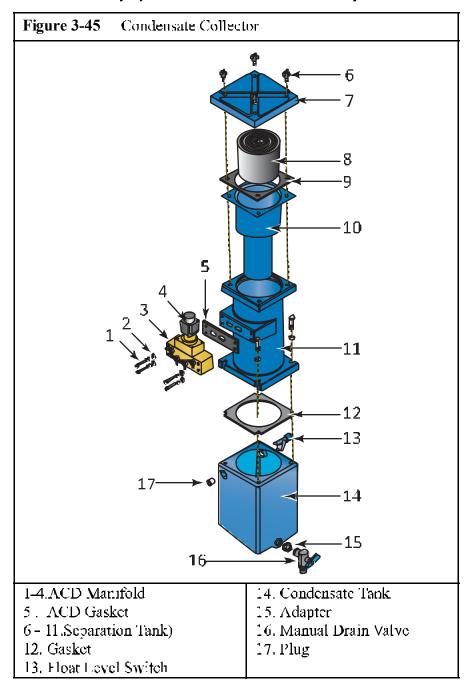


#### 3.3 Condensate Collector

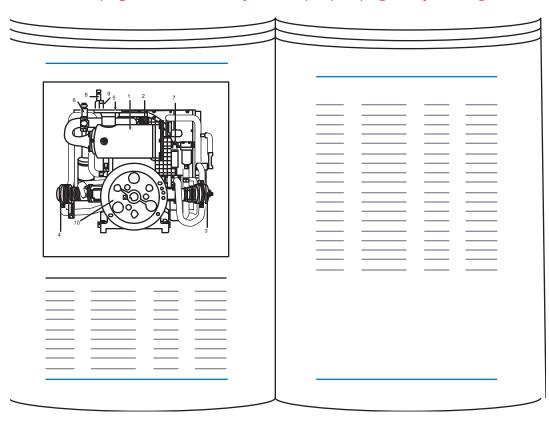
The processed Gas is heated by the compression process then cooled. This causes condensation within the system. The resulting moisture is removed after each compression stage with separators and is collected through the automatic condensate drain system.

This moisture may have a small oil content. The separation of entrained oil is not possible through simple methods; therefore the condensate must be completely removed. It is most practical to collect this condensate in special containers and dispose of it entirely.

For these compressor units a tank assembly is used. A float level switch is also included. The condensate is drained from the tank assembly by the manual drain valve into a separate container for proper disposal.

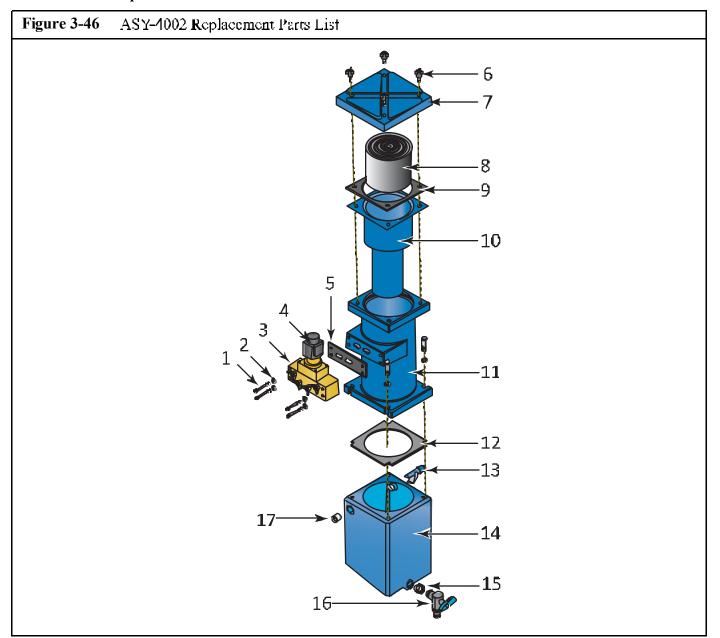


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### 3.3.1 ACD Replacement Parts List



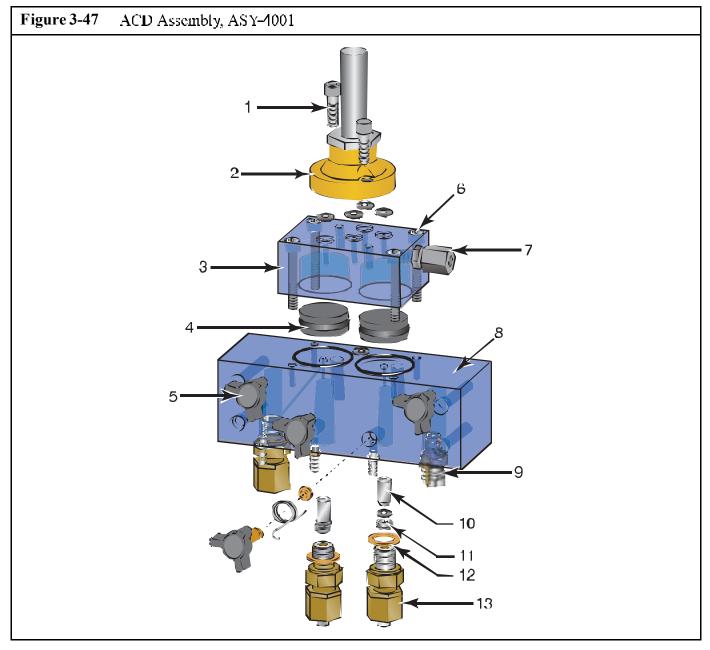
Item	Qty	Part No.	Description	Notes
<b>*</b>	1	ASY-4002	Automatic Condensate Drain System	
1	4	SCR-0390	Allen Screws	
2	4	WAS-0057	Split Lock Washer	
3	1	∆SY <b>-4</b> 001	ACD Manifold	See Figure 3-47
4	1	COI-0034	Solenoid, NO	12 Volt DC
or	1	COI-0035	Solenoid, NO	120 Volt <b>ΛC</b>
or	1	COI-0033	Solenoid, NO	24 V, 20 Watt (black)
5	1	GKT-0073	Gaskei	Neoprene
6	4	SCR-0391	Thumb Screws	





Figure 3-46 (cont.)		46 (cont.)	ASY-4002 Replacement Parts List	
Item	Qty	Part No.	Description	Notes
7	1	САГ-0103	Condensate Separator	
8	1	ELM-0210	Wire Mesh Filter Element	
9	1	GKT-0074	Gasket	Neoprene
10	1	HUS-0050	Inner Housing	
11	1	HUS-0062	Outer Housing	
12	1	GKT-0078	Gasket	Neoprene
13	1	SWT-0265	Liquid Level Switch	
14	l	TNK-0092	Condensate Tank	1.75 gal.
15	1	RED-0067	Reducer	
16	1	VA10137	Manual Drain Valve	
1.7	1	PLU-0198	Plug	





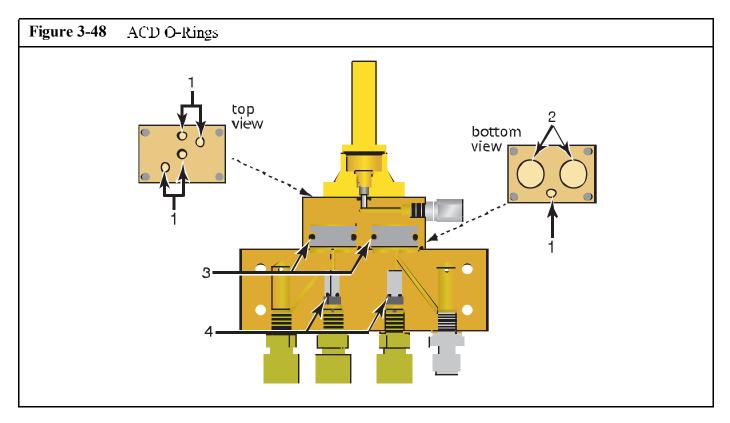
Item	Qty	Part No.	Description	Notes
•	1	∆ <b>SY-4</b> 001	ACD Valve	
1	2	SCR-0392	Allen Head Screws	
2	1	VAL-0634	Solenoid (hody only)	NO
3	1	MFD-0060	Upper ACD	
4	2	P1S-0004	ACD Piston	
5	4	073793	Drain Tap	
6	4	SCR-0393	Allen Head Serew	
&	4	WAS-0057	Split Lock Washer	
7	1	CON-0009	Connector	





Fig	Figure 3-47 (cont.)		ACD Assembly, ASY-4001		
Item	Qty	Part No.	Description	Notes	
8	1	MFD-0059	Main ACD		
9	1	CON-0009	Connector		
10	2	VAL-0426	Check Valve	600 psi	
11	2	SCR-0383	Set Screw		
12	4	N01316	Scaling Washer	copper	
1.3	3	CON-0061	Connector		





Item	Qty	Part No.	Description	Notes
1	5	RNG-0142	O-ring, ΛCD small	90 Duro
2	2	RNG-0143	O-ring, ACD large	90 Duro
3	2	N03521	O-ring, ACD pistons	75 Duro,
4	2	RNG-0114	O-ring, Check Valves	90 Duro



Figure 3-49 Regulator Assembly <sup>a</sup>



a.Only used with IK 120 II block

Item	Qty	Part No.	Description	Notes
	1	REG-0043	Pressure Regulator	6,000 ps: 1N; 0 - 250 psi OUT
2	1	VAL-0017	Safety Valve	225 ps:
3	1	GAG-0028W	Pressure Gauge	0 – 300 psi