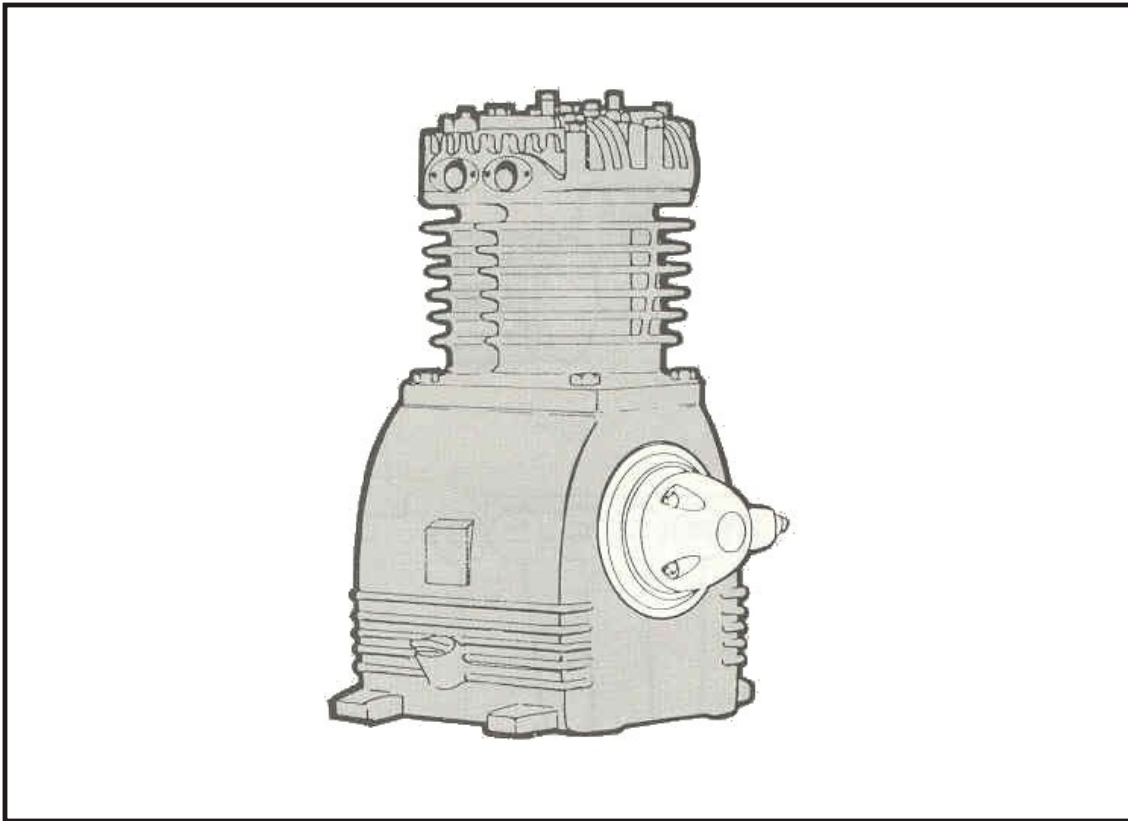


240 Series Compressor Pump

Note: This Pump is obsolete. Please contact your local DV Systems Distributor for Parts and/or a newer replacement Pump.



Warning: Check for proper oil level before using this equipment.

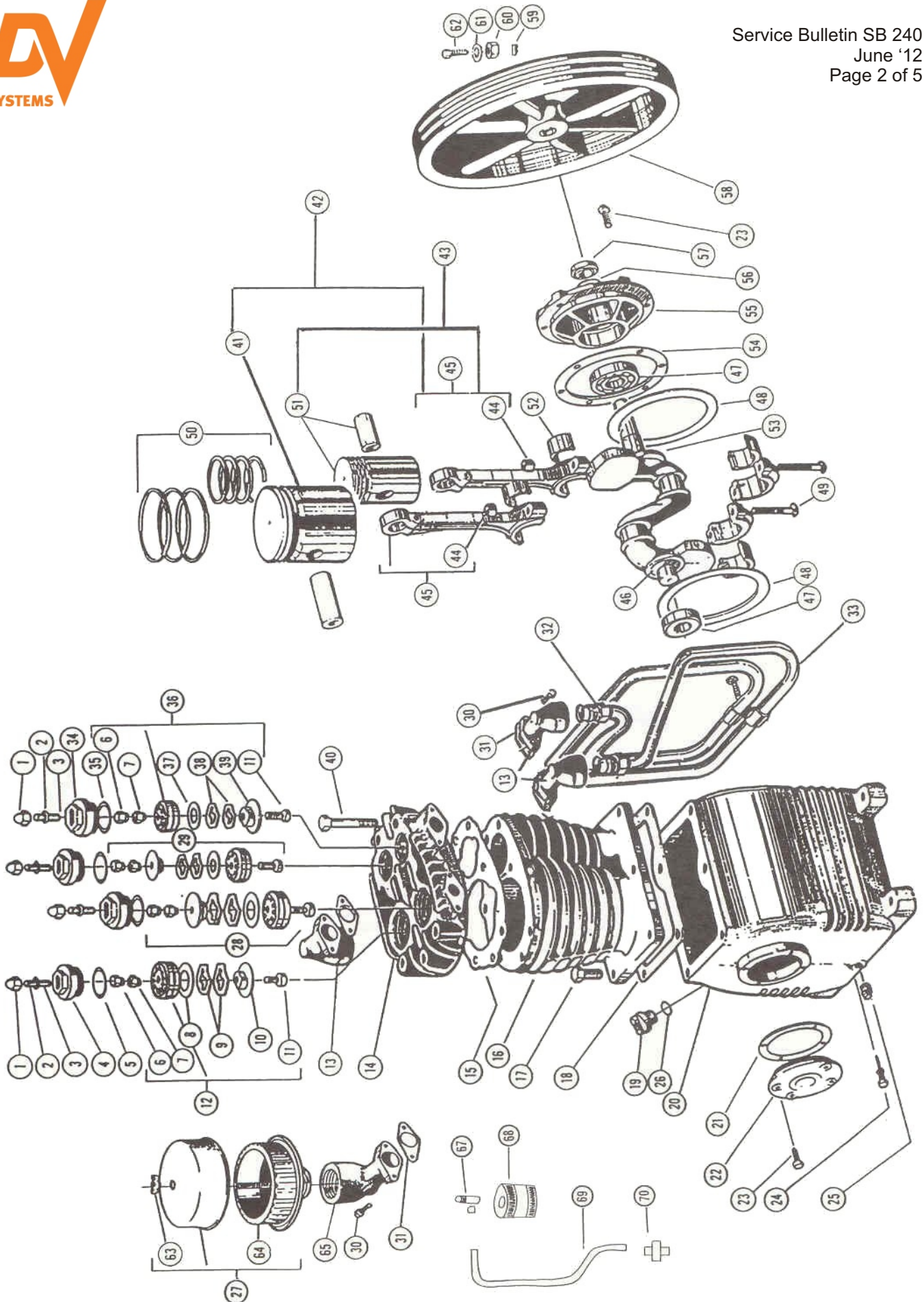
Use 'PR20' 20 weight non-detergent oil for ambient temperatures between 40° and 90°F.
Use 'PR30' 30 weight non-detergent oil for ambient temperatures above 90°F.

Specifications:	Crankcase Capacity (Approx):	76 Fluid Oz (1.9 litres)
	Minimum RPM:	500
	Maximum RPM:	1200
	Max. Intermittent Working Press.:	300 psi

If you require assistance, contact your local DV Systems Distributor or Authorized Service Centre. If you wish to contact DV Systems directly or need to locate your closest Distributor, please reach us at:

Phone: (705) 728-5657
Fax: (800) 561-1663

Website: www.dvsystems.ca
Email: sales@dvsystems.ca





The Item Numbers in the Chart(s) below refer to the Pump Breakdown on Page 2.

Item:	Part Number	Qty	Description
1	SS-7424	4	3/8-16 x 7/16" Cap Nut
2	SS-01767	4	Gasket (NLA) Use 'SS-7424'
3	SS-6044	4	3/8-16 x 1" Allen Hd Screw
4	445-89	2	LP Valve Cap
5	225-28	2	Gasket
6	445-361A	4	Cap Nut
7	445-360A	4	Jam Nut
8	225-25-1	2	LP Valve Disc
9	447-236	4	LP Valve Spring
10	445-94	2	LP Valve Guide
11	SS-10135	4	5/16-24 x 1" SHCS
12	445-4217	1	LP Intake Valve Assembly
13	41143-003	3	Elbow (NLA)
14	440-24	1	Cylinder Head (NLA)
15	440-26	1	Head Gasket (NLA)
16	440-325	1	Cylinder (NLA)
17	SS-25	6	3/8-16 x 1" HHCS
18	432-327	1	Cylinder to Crankcase Gasket
19	NCB-303-1	1	Oil Filler Plug
20	240-4	1	Crankcase (NLA)
21	38281-110	1	End Plate Gasket
22	37335-106	1	CPR Housing (NLA)
23	SS-13	4	5/16-18 x 7/8" HHCS
24	225-6	2	Screw
25	DV-500	1	Oil Drain Valve (NLA)
26	SS-2670	1	'O' Ring
27	356-9404	1	Air Intake Filter Assembly
28	445-4205	1	LP Exhaust Valve Assembly
29	432-4205	1	HP Exhaust Valve Assembly
30	SS-14	8	5/16-18 x 1" HHCS
31	432-196	4	Gasket
32	UAO-11	2	Tube Nut
33	CT-9471	1	Intercooler Assembly (NLA)
Use	CT-9475	1	Intercooler Assembly (NLA)
34	432-89	2	HP Valve Plug
35	342-128	2	Gasket

Item:	Part Number	Qty	Description
36	432-4217	1	HP Intake Valve Assembly
37	220-25	2	HP Valve Disc
38	432-236	4	HP Valve Spring
39	432-94	2	HP Valve Guide
40	SS-31	7	3/8-16 x 2-1/2" HHCS
41	440-412	1	LP Piston & Pin Assy (NLA)
42	440-9402	1	LP Rod & Piston Assy (NLA)
43	440-9403	1	HP Rod & Piston Assy (NLA)
44	SS-7982	4	3/8-24 Lock Nut
45	432-4110-2	2	Rod & Cap Assembly (NLA)
46	235-43	2	Oil Cup
47	130-23	2	Ball Bearing
48	235-5-1	2	Oil Throw Ring (NLA)
49	432-41	4	Connecting Rod Bolt (NLA)
50	RK-9400	1	Ring Kit (Std) (NLA)
51	440-4112	1	HP Piston & Pin Assy (NLA)
52	432-474	2	Connecting Rod Bearing (Std)
53	45817-515	1	Crankshaft Assembly (NLA)
54	38256-117	1	End Plate Gasket
55	37333-307	1	End Plate
56	330-160	1	Felt Washer
57	130-111	1	Oil Seal
58	330-457	1	Flywheel (NLA)
59	SS-3484	1	3/16 x 2-1/8 Key (NLA)
60	SS-657	1	3/8-16 Hex Nut
61	SS-1502	1	3/8 Lock Washer
62	SS-155	1	3/8-16 x 3-1/2" HHCS
63	SS-2037	1	1/4" Wing Nut (NLA)
64	357-9701	1	Air Filter Element
65	37534-107	1	Intake Elbow (NLA)
66	SS-01611	1	Adapter Tee (NLA)
67	FM-500	1	Filter Monitor (NLA)
68	CT-9472	1	Crankcase Vent Tube (NLA)
69	SS-8553	1	1/8x 1/4 OD Comp. Connector

Kits Available for the '240' Pump

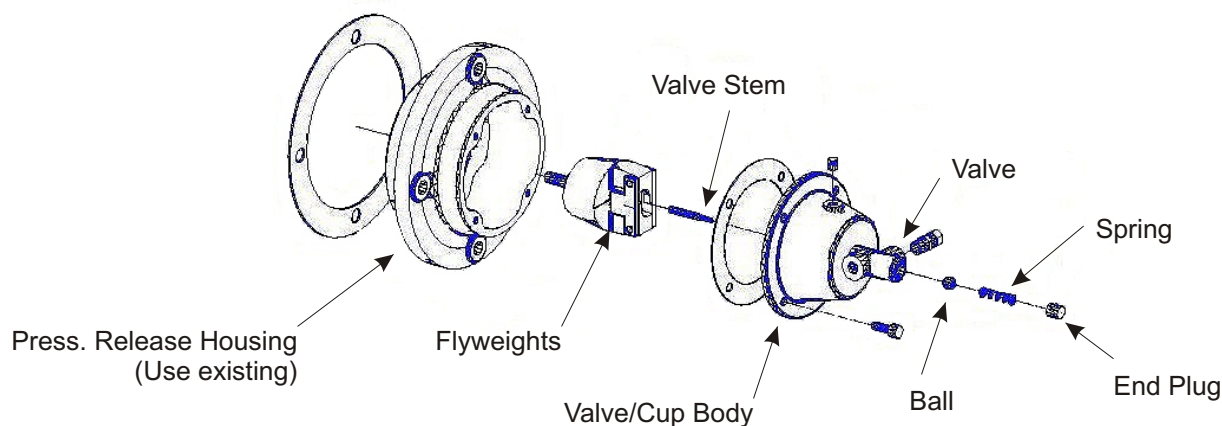
Part Number	Qty	Description	Includes
GK-9400	1	Complete Gasket Kit	# 2, 5, 15, 18, 21, 26, 31, 35, 54
VRK-642	1	Valve Repair Kit	# 2, 5, 6, 7, 8, 9, 11, 35, 37, 38
OK-240	1	Overhaul Kit	(NLA)
MK-236	1	Maintenance Kit	20 Weight Oil + Filter (for 1 change)

Centrifugal Pressure Release Assembly

New Style 'CPR' Assembly.

This CPR can be retro-fitted onto an existing '240' Series Pump. Order 'CPR-9700' Kit.

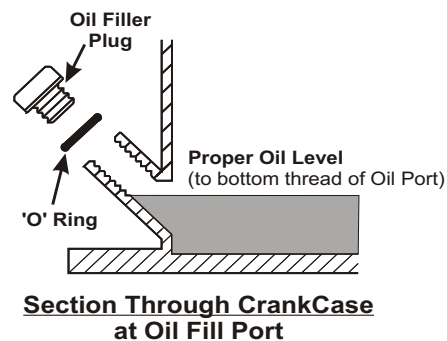
Note: This Kit can only be used on Pumps that operate at 500 rpm or more.



Lubrication:

Fill the Crankcase to the lowest thread at the Oil Fill Port Opening. **Do not under or overfill.** See drawing.

Tightly screw in Oil Fill Plug using a crescent wrench. Use only **DV Systems Premium Compressor Oil** for the Air Compressor, as it has been specially formulated for your Unit, and contains only two additives, a rust inhibitor and an anti foaming agent.



Compressor Torque Values

Item:	Description	In Lbs	Ft Lbs	Nm
1	Cap Nuts	180	15	20.3
3,6	Valve Cap Screw	180	15	20.3
4,34	Valve Plug	-	125	169
12	LP Intake Valve	180	15	20.3
17	Cylinder to Crankcase	240	20	27.1
22	Small End Plate	144	12	16.2
24	Oil Ring Retainer	144	12	16.2
28	LP Exhaust Valve	180	15	20.3
29	HP Exhaust Valve	180	15	20.3
30	Elbow Bolts	144	12	16.2
36	HP Intake Valve	180	15	20.3
40	Head Bolts	240	20	27.1
49	Connecting Rod - Crank End	408	34	46
56	Large End Plate	144	12	16.2
63	Flywheel Bolts	360	30	40.6
See Above	CPR Housing (CPR Assy)	144	12	16.2
See Above	Valve / Cup Body (CPR Assy)	72	6	8.1

CAUTION. Pre-lubricate all Crank Throws and Insert Bearing surfaces to prevent Compressor tie-ups during the first few minutes of operation. Pour oil on the outside of the Connecting Rod and Crank shoulders. Use the Crankcase oil, DO NOT USE GREASE.

Honing Specifications

	Std. Cylinder Hone Diameter	Piston Skirt/ Cyl Dia Clear.
Low Pressure Cylinder	4.000	.0050
	4.001	.0070
High Pressure Cylinder	2.1245	.002
	2.1255	.004

1. Diametral Clearance of oversized Cylinders and Pistons is the same as standard Cylinders and Pistons.
2. Cylinders must be within diametral tolerance at all points, out of round or taper must not exceed .0005.
3. Hone 20 min to 35 max micro inches of surface roughness.
4. De-burr the sharp corners at the top of the Cylinder opening with a 1/64 to 1/32 x 30° chamfer.

Connecting Rod Insert Bearings

Insert	Crank Throw Diameter	Part Number
Standard	2.0000	432-474
	1.9995	
.010	1.9900	432-474-010 (NLA)
	1.9895	
.020	1.9800	432-474-020
	1.9795	

'240' Pump Specifications

Pump Model	HP	175 psi		125 psi		# of Cyl.	Bore	Stroke	Flywheel		Pump Dimensions (Refer to drawing)						Weight (Pounds) (Approx)
		RPM	Del'y (CFM)	RPM	Del'y (CFM)				Dia.	Groove	A	B	C	D	E	F	
240	3	500	10.1	600	11.8	2	4" & 2.125"	3.5"	15"	1B (236) 2A (240)	15"	22.75"	19"	15.375"	9.125"	8.125"	160
	5	750	16.5														
	11 Gas	750	16.5														

Note: Though the dimensions are correct, the Pump may not be exactly as shown.

