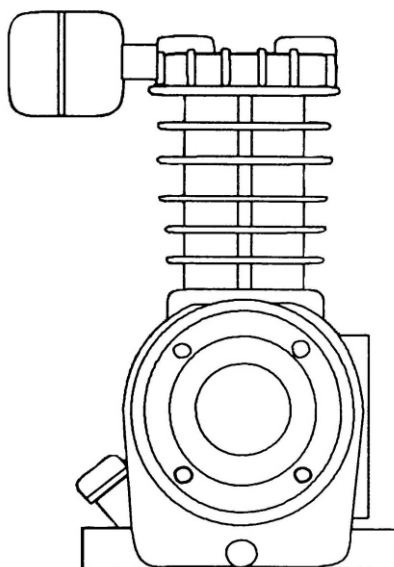




223 Series Compressor Pump



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

Use Devair Premium Compressor Oil 'PR-20' for ambient temperatures below 90°F (32°C).

Use Devair Premium Compressor Oil 'PR-30' for ambient temperatures above 90°F (32°C).

Specifications:	Crankcase Capacity:	30 Fluid Oz (.75 litres)
	Minimum RPM:	350
	Maximum RPM:	950
	Max. Continuous Working Press.:	150 psi

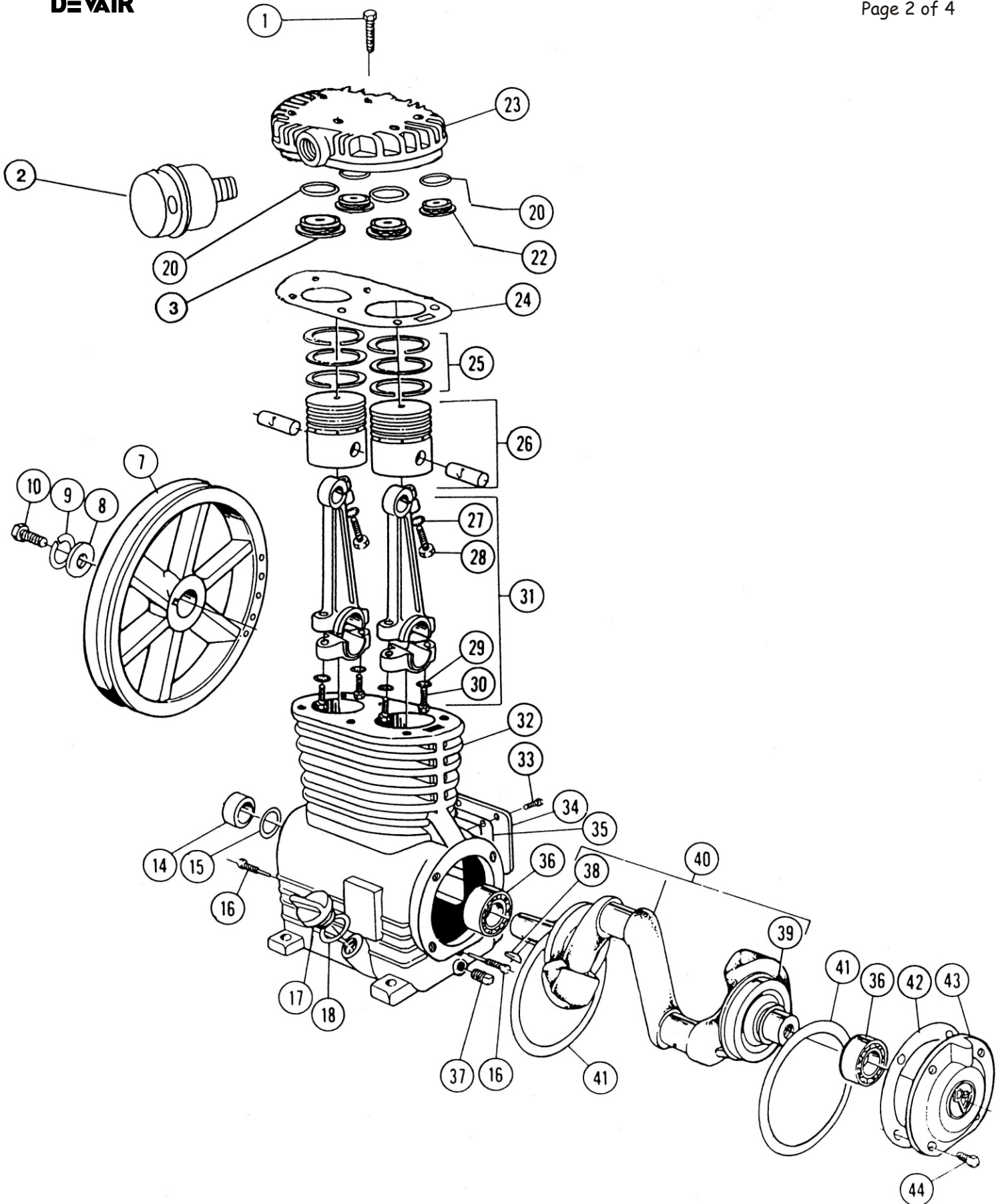
M&S Service Co. Inc.

Phone: (800) 475-5660

Email:

Website: www.msservice.net

customerservice@msservice.net



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

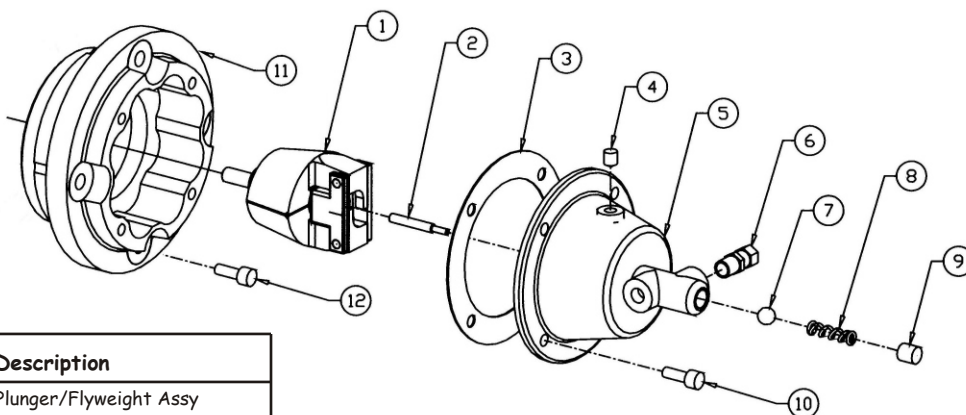
Item:	Part Number	Qty	Description
1	SS 29	6	HHCS 3/8 16 x 2"
2	356 9406	1	Silencer Assy
	356 9701	1	Filter Element
3	123 417	2	Intake Valve Assy
7	31438 124	1	Flywheel
8	32233 122	1	Flywheel Washer
9	SS 3607	1	Medium Lockwasher 3/8"
10	SS 25	1	HHCS 3/8 16 x 1"
14	130 111	1	Oil Seal
15	330 160	1	Washer
16	220 6	1	Screw
17	NCB 303 1	1	Oil Filler Plug
18	SS 2670	1	O Ring
20	123 28	4	Valve Gasket
22	123 405	2	Exhaust Valve Assy
23	37132 120 1	1	Cylinder Head
24	38547 108	1	Cylinder Head Gasket
25	KK 9848	2	Rink Kit
	KK 9849	2	Rink Kit (020 Oversize)

Item:	Part Number	Qty	Description
26	45855 131	2	Piston & Pin Assy
	45855 134	2	Piston & Pin (020 Oversize)
27	SS 3673	2	Shakeproof Lockwasher 1/4"
28	21741 194	2	Screw
29	SS 3674	4	Shakeproof Lockwasher 5/16"
30	21741 193	4	Screw
31	45856 170	2	Rod & Cap Assembly
32	37136 111	1	Cylinder & Crankcase
33	SS 1	6	HHCS 1/4 20x1/2"
34	36883 105	1	Inspection Plate
35	38513 125	1	Inspection Plate Gasket
36	130 23	2	Ball Bearing
37	SS 1217	1	3/8" Square Head Plug
38	SS 1578	1	Key Number 13 1x3/16"
39	225 43	2	Oil Cup
40	45817 526	1	Crankshaft & Oil Cup Assy
41	32541 115	2	Oil Pickup Ring
42	38281 110	1	End Plate Gasket
43	37331 106	1	End Plate
44	SS 12	4	HHCS 5/16 18x3/4"

Kits Available for the '223' Pump

Part Number	Qty	Description	Includes
GK 9406	1	Complete Gasket Kit	# 14 15 18 20 24 35 42
VK 123	2	Valve Repair Kit	# 3 20 22
OK 223	1	Overhaul Kit	# 25 and (1) 'GK 9406' (2) 'VK 123'

Centrifugal Pressure Release Assembly (CPR-9700)



Item:	Part Number	Qty	Description
1	CPR 9401	1	Plunger/Flyweight Assy
2	CPR 9004	1	Valve Stem
3	445 144	1	Gasket
4	CPR 9000 1	1	Plug
5	CPR 9009	1	Valve/Cup Body
6	SS 8553	1	Compression Fitting
7	CPR 9007	1	Ball
8	CPR 9006	1	Valve Spring
9	CPR 9000	1	Plug/Guide

Item:	Part Number	Qty	Description
10	SS 10022	4	SHCS 1/4 20x1/2"
11	37335 106	1	Pressure Release Housing
12	SS 7840	4	SHCS 5/16 18x1 1/4"

Part Number	Description	Includes:
CPR 9010	CPR Repair Kit	#2 3 7 8 9



Pump Torque Values

Item:	Description	In Lbs	Ft Lbs	Nm
1	Head Bolts	240	20	27.1
3 22	Valves	360	30	40.6
10	Flywheel Bolt	240	20	27.1
16	Oil Ring Retainer	144	12	16.2
28	Connecting Rod Pin End	90	7.5	10.1
30	Connecting Rod Crank End	228	19	25.7
33	Inspection Cover	72	6	8.1
44	Large End Plate	144	12	16.2

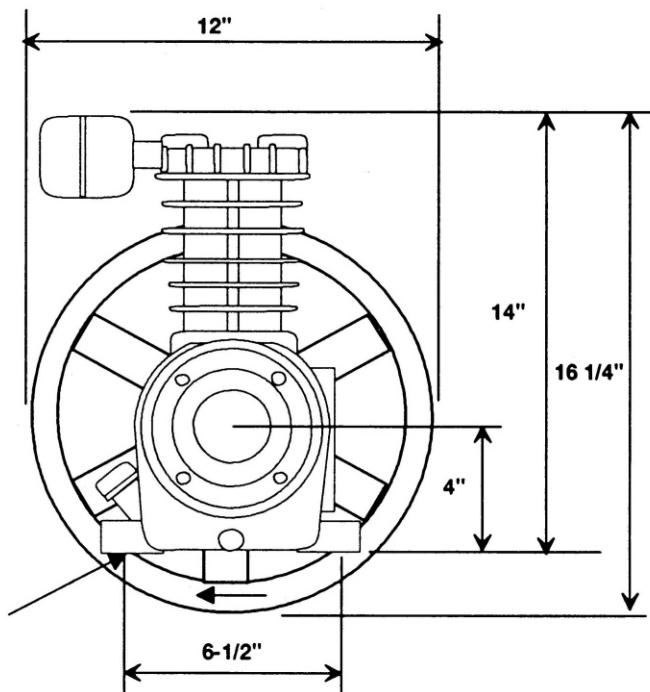
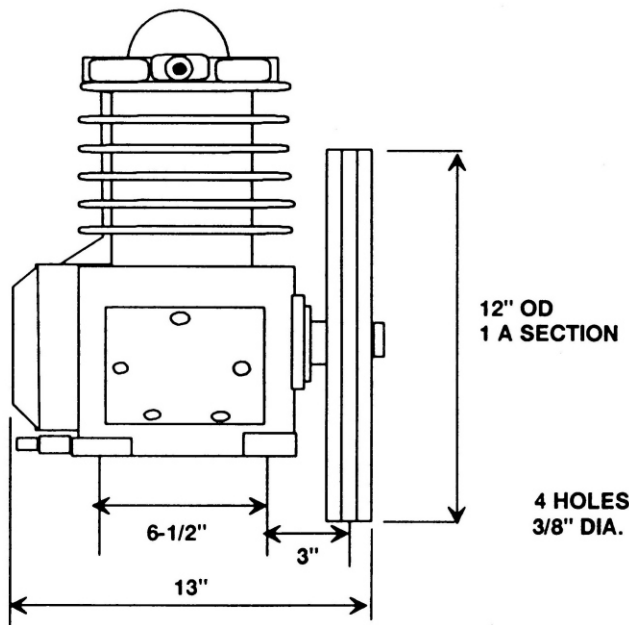
Retorque Head Bolts, End Plate, and Inspection Cover Bolts after 10 hours of operation.

Honing Specifications

	Std. Cylinder Hone Diameter	Piston Skirt/Cyl Dia Clear.
Standard Cylinder	2.5000	0.035
	2.5005	0.055

1. Cylinders must be within diametral tolerance at all points; out of round or taper must not exceed 0.005.
2. Hone 20 min to 35 max micro inches of surface roughness.
3. De-burr the sharp corners at the top of the cylinder opening with a 1/64 to 1/32 x 30° chamfer.

Pump Dimensions



Pump Specifications

Pump Model	HP	100 psi		# of Cyl	Bore	Stroke	Flywheel		Pump Dimensions (Refer to drawing)						Weight (Pounds) (Approx)
		RPM	Del'y (CFM)				Dia	Groove	A	B	C	D	E	F	
223	1	500	4.1	2	2.5"	2.25"	12"	1A	12"	14"	15.5"	13"	6.5"	6.5"	82
	1 1/2	740	6.0												
	2	950	7.4												