

VV64 Compressor

Fig 1

General Arrangement

Position	Description	Q.P.M.	Part No:
1	Complete Air End		0302
2	Mounting Bracket Right	1	0371
3	Mounting Bracket Left	1	0372
6	Mountings (4Per Machine)	4	0354
10	Frame	1	0386
25	Mounting Washer 54 dia x 12 id x 3 thick	4	0398
27	Drive Motor 110V Dc	1	0348
29	Bell Housing	1	0350

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Fig 2

Air End Assembly

Position	Description	Q.P.M.	Part No:
1	Crank Case	1	0370
5	Side Cover Oil Filler and Dip Stick	1	0356
6	Breather Side Cover (Left)	1	0325
7	Gasket Side Cover	2	2614
12	Bearing Housing	1	0384
16	Gasket - Bearing and Counterweight Covers to Crankcase	1	2617
18	Circlip - Main Bearing	2	0359
19	Gasket - Bearing and Counterweight Covers to Crankcase	1	2617
20	Counter Weight Cover	1	0349
24	Gasket - Oil Filler to Crankcase	2	2618
25	Oil Cap Filler Extension	1	0337
26	Bearing Splash Plate	1	0362
30	Cylinder Block	1	0368
31	Gasket - Cylinder to Head	1	2615
38	Crankshaft	1	0388
	Bearing Half Big End (Set) (Two Halves)	3	0329
39	Locking Disc	2	4119
42	Key - Coupling	1	0333
43	Lock Nut	1	0335
45	Key - Balance Weight	1	0334
46	Counter Weight	1	0352
52	Conrod	3	0306
56	Small End Bearings - Needle Rollers	3	0307
61	Piston - Low Pressure	2	0311
62	Gudgeoned Pins - Low Pressure	2	0308
63	Circlip (Piston)	4	0310
64;65&66	Piston Rings LP set	2	0313
70	Piston - High Pressure	1	0312
71	Gudgeoned Pin - High Pressure	1	0309
72	Circlip (Piston)	2	0310
73;74;75	Pistons Rings HP Set	1	0314
79	Cylinder Head Complete (See Figure 3)	1	0315
80	Oil Filler	1	0336
	Gasket Cylinder to Crankcase	1	2616
86	Oil Filler Service Kit	1	0383
94	Roller Bearing Nu207E	1	0331
95	Roller Bearing NU210E	1	0332
97	Gasket - Bell Housing to Crankcase	1	2620
98	Felt Seal	1	0364

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Fig 3

Coupling Assembly

Position	Description	Q.P.M.	Part No:
1	Coupling - Motor Side	1	0342
2	Coupling Pegs	4	0340
4	Coupling - Air End Side	1	0341
5	Coupling Rubber Inserts	4	0339

Fig 4

Cylinder Head Assembly

Position	Description	Q.P.M.	Part No:
1	Cylinder Head only	1	0316
2	Valve Cap Retainer	6	0358
11to14	Suction Valve - Each	3	0317
18to21	Delivery Valve - Each	3	0318
3	Valve Retainer - Each	6	0321
4	Valve Cap Washers Upper	6	0320
6	Square Flange HP & LP Connecting Flange	1	0344
7	Gasket - Manifold	4	2619
11	Valve Seat Suction (Not Sold Separately)		0391
12	Valve - Stop Plate (Not Sold Separately)		0389
13	Valve Plate - Suction & Delivery (Not Sold Separately)		0390
14	Valve Spring (Not Sold Separately)		0393
18	Valve Stop Plate (Not Sold Separately)		0389
19	Valve Plate - Suction & Delivery (Not Sold Separately)		0390
20	Valve Spring (Not Sold Separately)		0393
21	Valve Seat Delivery (Not Sold Separately)		0392
22	Valve Copper Washers Lower (Set 6)	6	0319

Components not found on the Schematic Drawing

Oil Filler Cap	1	0326
Dip Stick	1	0369
Protection Plate - Oil Filler - Straight	1	0373
(No Suggestions) Pipe	1	0343
Suction Pipe	1	0360
Delivery Fitting Type 2	1	0379
Coupling Guard Plate (on the Bell Housing)	2	0351
Bracket for Mounting Square Motor	1	0355
Square Motor - Adaptor Plate	1	0378

Complete Unit (Air End, Motor and Frame)		0301
Complete Gasket Kit		0303
Complete Overhaul Kit		0304
Bolt Kit		0365
Stud Kit		0366

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Description	Q.P.M.	Part No:
Overhaul Kit		0304
Kit consists of:		
Coupling Pegs	4	0340
Coupling Rubber Inserts	4	0339
Delivery Valve	3	0318
Suction Valve	3	0317
Valve Copper Washers, Lower	6	0319
Valve Cap Washers, Upper	6	0320
Piston Rings Set - LP	2	0313
Piston Rings Set - HP	1	0314
Needle Rollers, (Small End Bearing)	3	0307
Bearing Half Big End, (1 set = 2 halves)	3	0329
Roller Bearing - NU210E	1	0332
Roller Bearing - NUP210	1	0331
Circlip, (Piston)	6	0310
Key - Coupling	2	0333
Key - Balance Weight	1	0334
Felt Seal	1	0364
Complete Gasket Kit (Gaskets 2614 to 2620)	0	0303
Gasket - Side Cover	2	2614
Gasket - Cylinder to Head	1	2615
Gasket - Cylinder to Crankcase	1	2616
Gasket - Bearing & Counterweight covers to Crankcase	2	2617
Gasket - Oil Filler to Crankcase	2	2618
Gasket - Manifold	4	2619
Gasket - Bell Housing to Crankcase	1	2620
Oil Filler Service Kit	1	0383
Circlip - Main Bearing	3	0359
Locking Plate 10mm	6	M1009
Locking Plate 12mm	3	M1209
M12 Spring Washer	4	M1201Z
M12 Flat Washer	4	M1203Z
M12 Nut	4	M1204Z
M10 Nut, LP/HP Pipe	8	M1004
M10 Spring Washer, LP/HP Pipe	8	M1012
M6 x 16 Set Screw, for Coupling Guard Plate	4	M6S16

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Description	Q.P.M.	Part No:
<u>Gasket Set</u>		<u>0303</u>
Consist of:		
Gasket - Side Cover	2	2614
Gasket - Cylinder to Head	1	2615
Gasket - Cylinder to Crankcase	1	2616
Gasket - Bearing and C/Weight Covers to Crankcase	2	2617
Gasket - Oil Filler to Crankcase	4	2618
Gasket - Manifold	4	2619
Gasket - Bell Housing to Crankcase	1	2620

<u>Bolt Kit</u>		<u>0365</u>
Consist of:		
M10 Flat Washer	2	M1003
M10 Nut	28	M1004
M10 Spring Washer	26	M1001
M12 Nut	32	M1204
M12 Spring Washer	32	M1201
M16 Spring Washer	4	M1601
M20 Flat Washer	4	M2003
M20 Spring Washer	4	M2001
M10 x 30 Bolt HT Zinc	2	M10B30
M10 x 40 Bolt HT Zinc	2	M10B40
M10 x 50 Bolt HT Zinc	5	M10B50
M10 x 45 Bolt HT Zinc	4	M10B45
M12 x 90 Engineering Stud HT Zinc	4	M12ES90
M5 x 10 Cap Screw HT Zinc	4	M5C10
M20 x 35 Bolt HT Zinc	4	M20B35
Flat Washer 40 x 12 x8	2	4119
Flat Washer 55 x 12 x 4	4	398
M10 x 90 Engineering Stud HT Zinc	8	M10ES100

<u>Stud Kit For Crankcase</u>		<u>0366</u>
Consist of:		
M10 x 90 Eng. Stud HT Zinc (Oil Filler)	2	M10ES90
M12 x 45 Eng. Stud HT Zinc (Cylinder and Side Cover)	24	M12ES45
M12 x 90 Eng. Stud HT Zinc (Balance Weight Cover)	4	M12ES90
M16 x 50 Eng. Stud HT Zinc (Bell Housing)	4	M16ES55