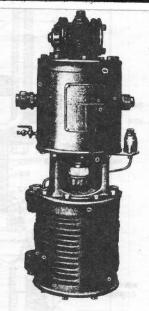


BACKSHOP ENTERPRISES: Bernie Watts: 303-424-6882

5160-B PARFET ST., UNIT 1 • WHEAT RIDGE, CO 80033

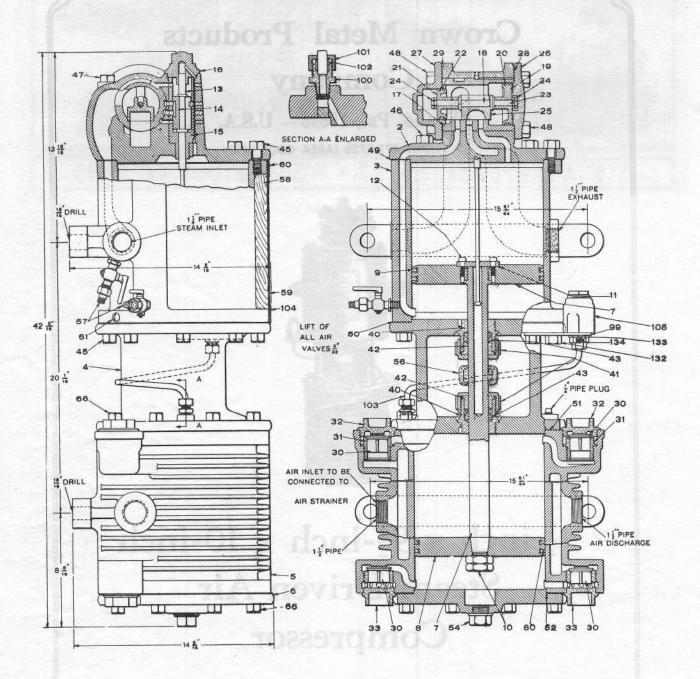


9½-inch x 9½-inch x 10-inch
Steam Driven Air
Compressor

Part Catalog No. 3204-3

2/15/68

91/2-INCH x 91/2-INCH x 10-INCH AIR COMPRESSOR



Net Weight, 550 lbs. Shipping Weight, 650 lbs.

91/2-INCH x 91/2-INCH x 10-INCH AIR COMPRESSOR

(For General Data, see page 6.)

This Compressor with 9½-inch Steam Cylinder, 9½-inch Air Cylinder and 10-inch Stroke has a displacement of 49 cubic feet when operating at the normal speed of 120 single strokes per minute.

Piece No. 521734. 9½" Air Compressor (Right and Left Hand), complete with Filter and Type B-3 Automatic Oil Cup

Piece No. 77886. 91/2" Air Compressor (Right and Left Hand), complete with Air Strainer and Type B-3 Automatic Oil Cup

Pc. No.	Ref.	No. Per Pkg.	rador nette of tablin to mistaim t	Pc. No.	Ref. No.	No. Per Pkg.	
1853	2	1-2	Top Head, complete (includes 14, 15, 16, 17, 18, 25, 26, 27, 28, 29, 46 and eight of 48)	1913 2090	42 43	1	Stuffing Box Gland (2 Req'd) Piston Rod Packing (Composition) (sufficient
1880	3	1-3	Steam Cylinder, complete (includes 58, 59, 60, 104, Pcs. 8727, 8728; three of 57 and	1933 1879	45 46		for 2 Stuffing Boxes) %"x15%" Cap Screw (12 Req'd) %"x2" Cap Screw %"x05%" Cap Screw %"x15%" Main Valve Head Cap Screw (8
1958	3	1-3	four of 61) Steam Cylinder, complete (includes 58, 59, 60, 104; two of 57 and four of 61)	25437 1878	47 48		96"x614" Cap Screw 96"x114" Main Valve Head Cap Screw (8
54179	4	1-2	Center Piece, complete (includes Pc. 1635 and two of 40, 41 and 42)	1929	49	25	Upper Steam Cylinder Gasket
76838	5	1-3	Air Cylinder, complete (includes two of 31, 32, 33 and four of 30) Lower Head (includes 54) Steam Piston and Rod (includes 11 and two	1931 1931	50 51	25 25	Lower Steam Cylinder Gasket Upper Air Cylinder Gasket Lower Air Cylinder Gasket
5165	6	1	Lower Head (includes 54)	1931	52	25	Lower Air Cylinder Gasket
98174	17	î	Steam Piston and Rod (includes 11 and two	1919	54	6	Cylinder Head Plug
See		THE TAIN Y	of 9, 10 and 12)	15038 33185	56 57	150	Piston Rod Swab Drain Cock (2 Req'd)
Pages	1 8		of 9, 10 and 12) Air Piston (includes two of 80)	1897	58		Drain Cock (2 Req'd)
4 and 5	8 9		Steam Piston Ring (2 Rea'd)	1894	59		Steam Cylinder Lagging
1557	10		Steam Piston Ring (2 Req'd) Piston Rod Nut (2 Req'd)	1895	60	25	Steam Cylinder Jacket
5/738 - 1925 FAN NEW YORK 12068 5/416 REV. ALATE 1868	11	3	Reversing Valve Plate Reversing Valve Plate Bolt (2 Req'd) Reversing Valve Rod	68421	61	144	Upper Steam Cylinder Jacket Band
FIN NEW YORK 12068	12		Reversing Valve Plate Bolt (2 Req'd)	00221	01	1.4.4	.320 (No. 20)-18x1 Jacket Band Screw (4 Req'd)
1928	13	5	Reversing Valve Rod	1933	66		Neq (1)
STYLE KEV, PLA 1888	14	2-10	Reversing valve	2000	80		%"x1%" Cap Screw (16 Req'd)
31253	15	3	Reversing Valve Chamber Bush	76630	00		Air Piston Ring (see pages 4 and 5) (2 Req'd) Oil Cup, complete with Bracket and Oil
1869	16	2	Reversing Valve Chamber Cap	1/2/2/20			Tube (includes 00, 100, 101, 100, 102, 102,
31251	17	2	Main Valve Bush				Tube (includes 99, 100, 101, 102, 103, 105 and two of 133 and 134)
	18		Main Valve Piston and Stem, complete (in-	76582	99		Oil Cup Bracket
See	19		Large Main Value Dietas (included to 190)	71756			14" Union Stud, complete (includes 100, 10
Pages	1 20		Large Main Valve Piston Ring (2 Dog/d)	4.40			and 102)
4 and 5	20 21		Main Valve Piston and Stem, complete (includes 19, 21, 23 and four of 24) Large Main Valve Piston (includes two of 20) Large Main Valve Piston (includes two of 20) Small Main Valve Piston (includes two of 22) Small Main Valve Piston (includes two of 22)	71755	100		Stud
	22		Small Main Valve Piston Ring (2 Reg'd)	71748	101		Nut
1861	23	6	Main Valve Stem	71727	102		Thimble
1864	24		Main Valve Stem Nut (4 Reg'd)	76581	103		Oil Tube
1867	25	6	Main Slide Valve	1895	104	25	Lower Steam Cylinder Jacket Band
1873	26	2	Right Main Valve Cylinder Head	89042	105	11.5	Type "D 2" Auto Ale Call to Call
5166	27	1	Left Main Valve Cylinder Head	00012	100		Type "B-3" Auto. Air Cylinder Oil Cup complete (see page 6)
1876	28	25	Right Main Valve Head Gasket	17034	132		%"x1 %" Hex. Hd. Cap Screws (2 Req'd)
1877	29	25	Right Main Valve Cylinder Head Left Main Valve Cylinder Head Right Main Valve Head Gasket Left Main Valve Head Gasket	17173	133		Lock Washer (2 Req'd)
24396	30	12-36	Air Valve (4 Req'd) Air Valve Seat (2 Req'd)	24286	134		%"x %" Cap Screws (2 Req'd)
8430	31	24	Air Valve Seat (2 Req'd)				o ays cup con no (a field (i)
505773 46806	32	6-12	Air Valve Cap (2 Req'd)	I MARKET !		Bourse	
1912	40	2	Air Valve Cage (Steel) (2 Req'd) Stuffing Box (2 Req'd)	1635			1/4" Pipe Plug
51344	41	9	Stuffing Box Nut (2 Req'd)	8728 8727			14" Pipe Plug 114" Pipe Plug 115" Pipe Plug
				-7992	6 /01)	540 4"
				-7992			Not
				-8/214	1 10	2	THIMBLE
							ATMINISTE THE MET ALL

Prices will be quoted upon application
Orders should give PIECE NUMBER and NAME of part wanted

91/2-INCH x 91/2-INCH x 10-INCH AIR COMPRESSOR

PISTONS AND RINGS FOR RE-BORED CYLINDERS

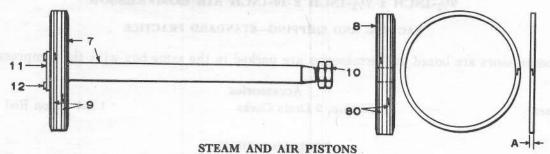
The most modern development in packing rings for steam driven air compressors is now available and involves an improved form of lap joint for the ring somewhat similar to the lap joint rings which have proven so successful in triple valves.

These Lap Joint rings are made from a special mixture of metal to give what long experience has indicated as the most desirable wearing and friction qualities in conjunction with the metal in the cylinder walls. Ring gap and its attendant leakage is eliminated through the medium of a special lap joint at the ring ends that closes the rings in a complete circle. With the ring closed in its groove this joint seals on both the cylinder wall and one wall of the ring groove, forming a double leakage barrier which prevents blow-by between cylinder wall and ring. The joint maintains the sealing function of the ring throughout its entire circumference and thereby effectively eliminates the ring gap as a chief source of blow-by losses. Very careful attention has been given in design and manufacture to provide uniform wall pressure of the proper amount, the inside diameter of the ring being left intact to preserve this characteristic pressure over a long period of service. The sides of the ring are accurately ground to the proper width, permitting a close fit in the ring groove. No filing or fitting is required.

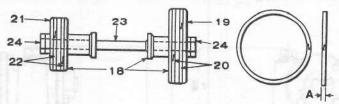
In reconditioning air compressors, it is our recommended practice to rebore the steam and air cylinders in steps of $\frac{1}{16}$ " and the main valve cylinders in steps of $\frac{1}{32}$ "; the maximum rebored diameter not to exceed that specified in the accompanying tables. We have provided repair pistons in the above oversize and piston rings of our latest improved manufacture in corresponding oversize diameters. The indicated diameter of the rings in each case is exact (a few thousandths large to take care of normal variations in reboring) so that when the ring is installed in the cylinder it will remain a true circle, thus insuring an even bearing at all points on the circumference and a tight fit against leakage. In addition to the oversize in diameter, the steam and air piston rings can all be obtained in widths greater than standard for use in ring grooves that have become wider than standard through wear. They range in overwidths of .006", .012", .018", .025", .030" and .036".

The wide variety of combinations in diameter and widths of rings should be sufficient to meet all normal repair requirements with the minimum of expense.

9½-INCH x 9½-INCH x 10-INCH AIR COMPRESSOR



Ref.	No.		Cylinder Diameters and Piece Numbers								
No.	Per Pkg.		914"	917"	918"	95%"	911"	9%"	911"	974"	
7 1	1	*†Steam Piston and Rod (includes 11 and two of 9, 10 and 12)	98174	508957	98175	98176	98177	98178	98179	98180	
8	1	*†Air Piston (includes two of 80)	98406	508953	98418	98419	98420	98421	98422	98423	
9 or 80	12-25	* Piston Ring (standard width, Dimension "A", 1/4") (4 Req'd)	97651	98959	97658	97665	97672	97679	97686	97693	
9 or 80	12-25	* Piston Ring (.006" wider than standard) (4 Req'd)	97652	98960	97659	97666	97673	97680	97687	97634	
9 or 80	12-25	Piston Ring (.012" wider than standard) (4 Req'd)	97653	98961	97660	97667	97674	97681	97688	97695	
9 or 80	12-25	Piston Ring (.018" wider than standard) (4 Req'd)	97654	504159	97661	97668	97675	97682	97689	97696	
9 or 80	12-25	Piston Ring (.025" wider than standard) (4 Req'd)	97655	504160	97662	97669	97676	97683	97690	97697	
9 or 80	12-25	Piston Ring (.030" wider than standard) (4 Req'd)	97656	504161	97663	97670	97677	97684	97691	97698	
9 or 80	12-25	Piston Ring (.036" wider than standard) (4 Req'd)	97657	504162	97664	97671	97678	97685	97692	97699	



See table below showing by B and C the cylinder diameters for which pistons and rings are suitable.

*MAIN VALVE PISTONS

Ref. No. Per Pkg.			Cylinder Diameters and Piece Numbers						
	Per Pkg.		$B = 2\frac{1}{8}''$ C = 3''	$B = 2\frac{5}{32}$ " $C = 3\frac{5}{32}$ "	B=2** C=3**	B = 2 ½ " C = 3½ "	B = 21/4" C = 31/4"		
18	1	Main Valve Piston, complete (includes 19, 21 and 23, and four of 24)	504601	504602	504603	504604	504605		
19	1	Large Main Valve Piston (includes two of 20)	504596	504597	504598	504599	504600		
20	50	Large Main Valve Piston Ring (standard width, Dimension "A", .136") (2 Req'd)	502559	502560	502561	502562	502563		
20	50	Large Main Valve Piston Ring (.006" wider than standard) (2 Req'd)	502564	502565	502566	502567	502568		
20	50	Large Main Valve Piston Ring (.012" wider than standard) 2 Req'd)	502569	502570	502571	502572	5 02573		
21	2	Small Main Valve Piston (includes two of 22)	504591	504592	504593	504594	504595		
22	50	Small Main Valve Piston Ring (standard width, Dimension "A", .136") (2 Req'd)	504571	504572	504573	504574	504575		
22	50	Small Main Valve Piston Ring (.006" wider than standard) (2 Req'd)	504576	504577	504578	504579	504580		
22	50	Small Main Valve Piston Ring (.012" wider than standard) (2 Req'd)	504581	504582	504583	504584	504585		

Pistons and rings are designated by the diameter of the cylinder for which they are suitable.

Above sizes of pistons and rings are carried in stock. Should orders be received for other sizes, we will substitute nearest standard size, unless specific instructions are received to the contrary.

These items include present standard piston rod having taper fit, without shoulder on the air piston end; also air pistons suitable for these rods. If air piston is desired for rod having former standard straight fit with shoulder, the order must so specify. NOTE D-

suitable for these rous. If air piston is desired for rou having former standard straight in white shoulder, the older indessor so specify.

If maximum repair size Steam Piston and Rod or Air Piston (less Rings and having ring grooves cut to standard caliper) suitable for turning to bore of cylinder, is desired, specify:

Pc. No. 69200. 9 % Steam Piston and Rod.

Pc. No. 69203. 9 % Air Piston.

$9\frac{1}{2}$ -INCH x $9\frac{1}{2}$ -INCH x 10-INCH AIR COMPRESSOR

PACKING AND SHIPPING—STANDARD PRACTICE

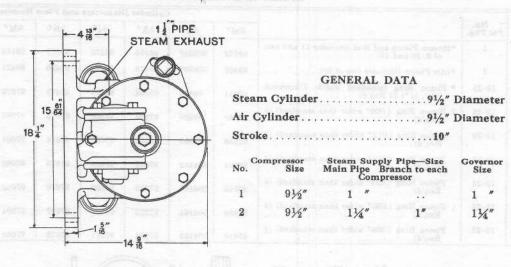
Compressors are boxed and accessories are packed in the same box with the compressor.

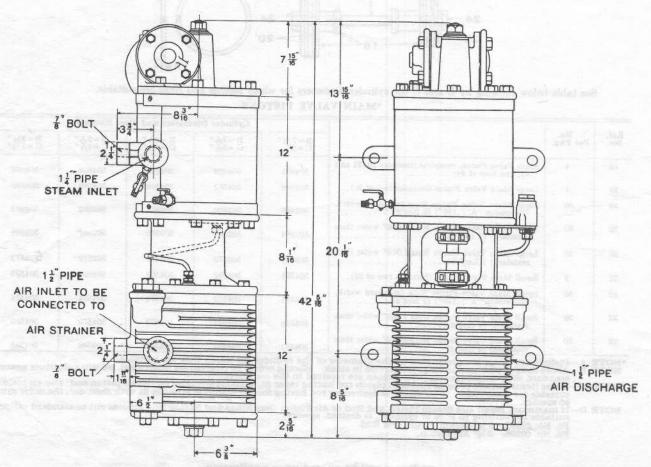
1 Strainer

Accessories
1 Oil Cup, 2 Drain Cocks

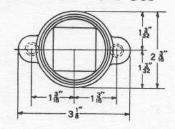
1 Set Piston Rod Packing

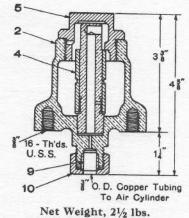
DIMENSION SHEET





TYPE "B-3" OIL CUP





Piece No. 89042. Type "B-3" Automatic Air Cylinder Oil Cup, complete less Brackets and Oil Tubes

Pc. No.	Ref. No.		
89043	2	Body with Valve Bushii	ng
70883	4	Sleeve	
88418	5	Cap Nut	
79927	203	Union Nut	*
81214	204	Thimble for 3/8" O. D.	Copper Tubing

9 1/2 INCH x 9 1/2 INCH x 10 INCH WRENCHES

Pec. No.

1935 Packing — Cap Nut Wrench

1936 Air Valve Seat Wrench

1937 Air Valve Cage Wrench

1938 Cap Bolt Wrench





