

YORK®

2-5/8" BORE V/W COMPRESSORS

TWO STAGE

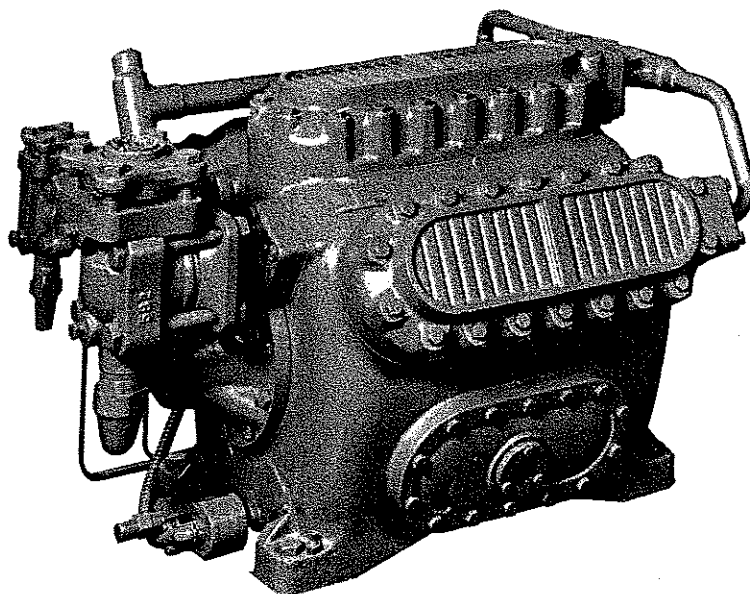
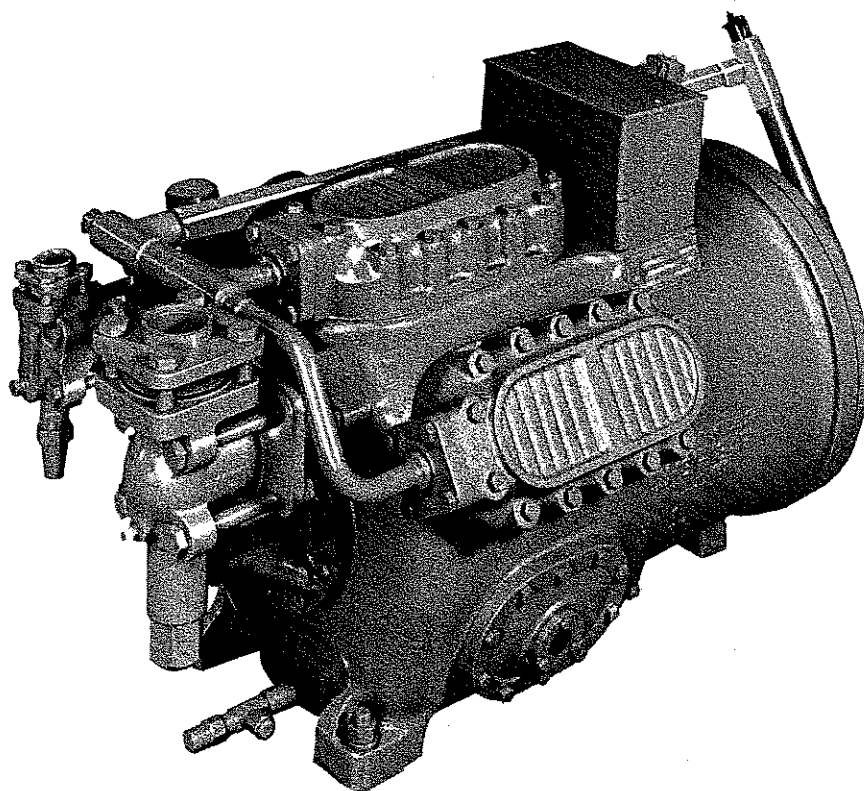
RENEWAL PARTS

Supersedes: Form 185.10-RP1 Coded 1169

773

Form 185.10-RF

HERMETIC AND OPEN TYPES



▲ - Indicates revision or addition since last printing.

COMPRESSOR IDENTIFICATION DATA

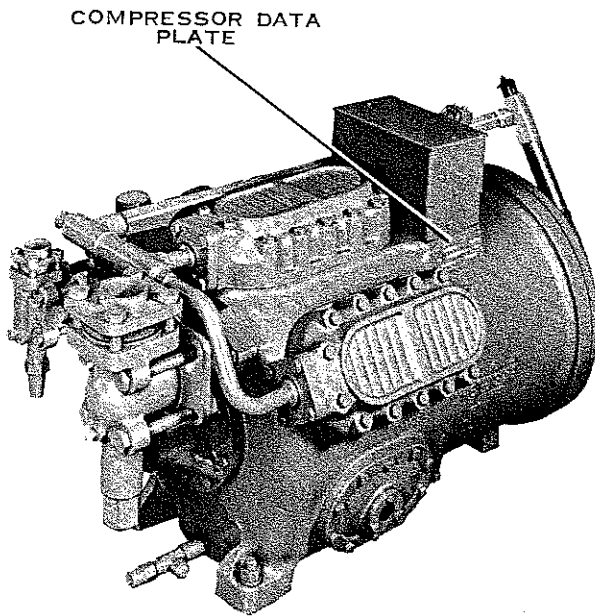


FIG. 1 —COMPRESSOR DATA PLATE
LOCATION - HERMETIC COMPRESSOR

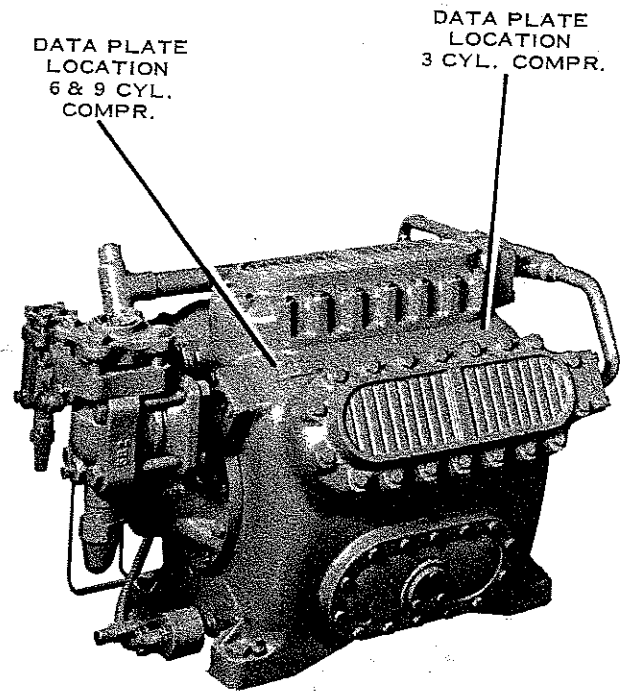


FIG. 2 —COMPRESSOR DATA PLATE
LOCATION - OPEN COMPRESSOR

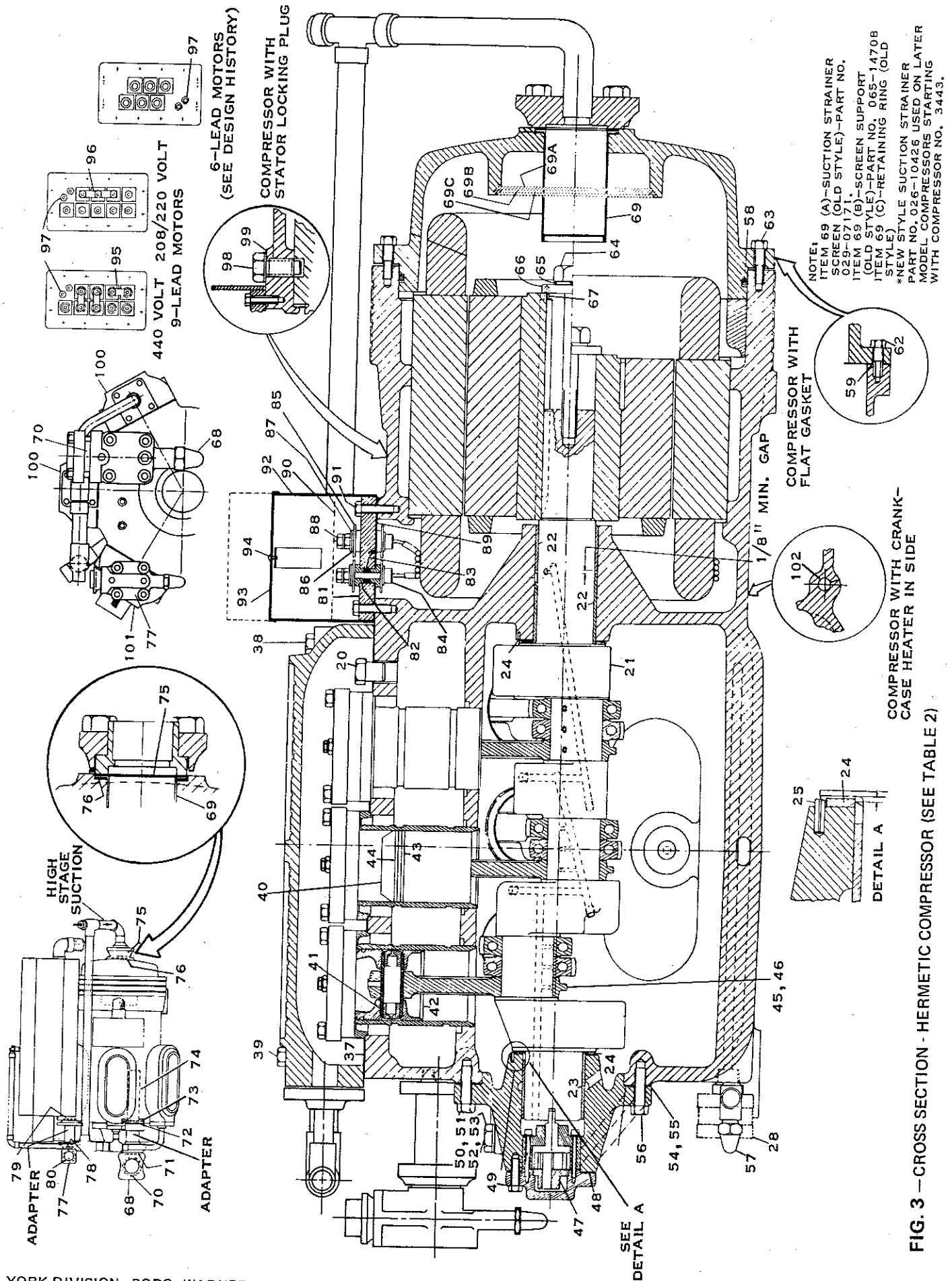
TABLE 1 — COMPRESSOR IDENTIFICATION DATA

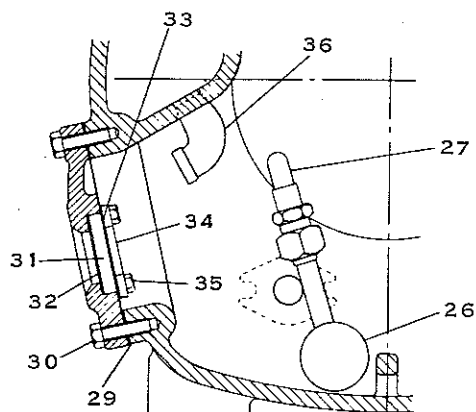
Compressor Model Number	Type Compressor	No. of Cylinders	Parts List— See Table
H32C*	HERMETIC	3	2
H3C		3	
H62C*		6	
H6C		6	
H92C*		9	
H9C		9	
F32C*	OPEN	3	3
F62C*		6	
F92C*		9	

*Present Model Number

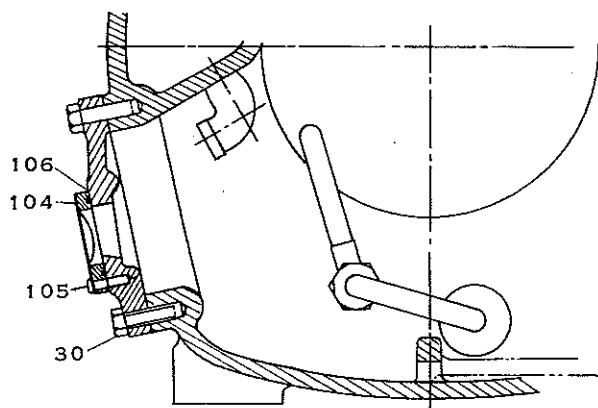
Notes:

1. Locate compressor model number on compressor data plate.
2. Find this number in first column of Table 1.
3. Refer to tables listed in last column of Table 1 and select Renewal Parts from column corresponding to no. of cylinders shown in third column of Table 1.
4. For illustration of parts refer to figures listed in second column of Tables 2 and 3.

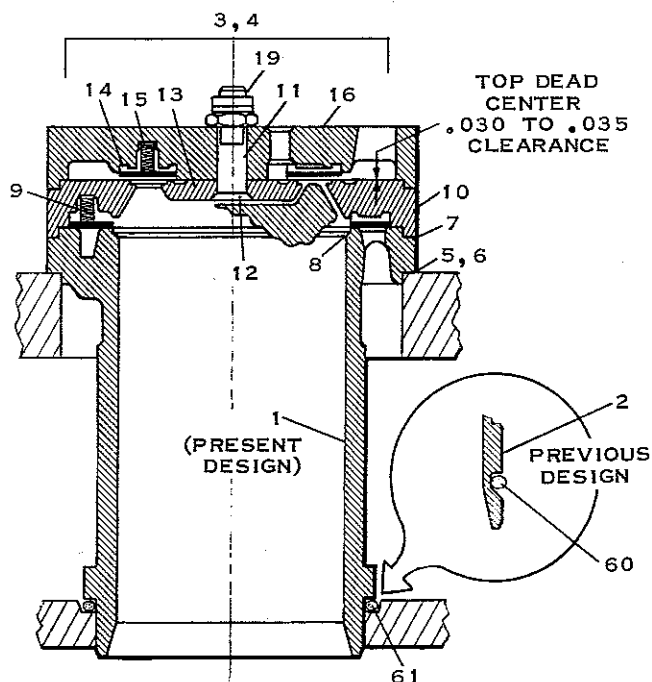




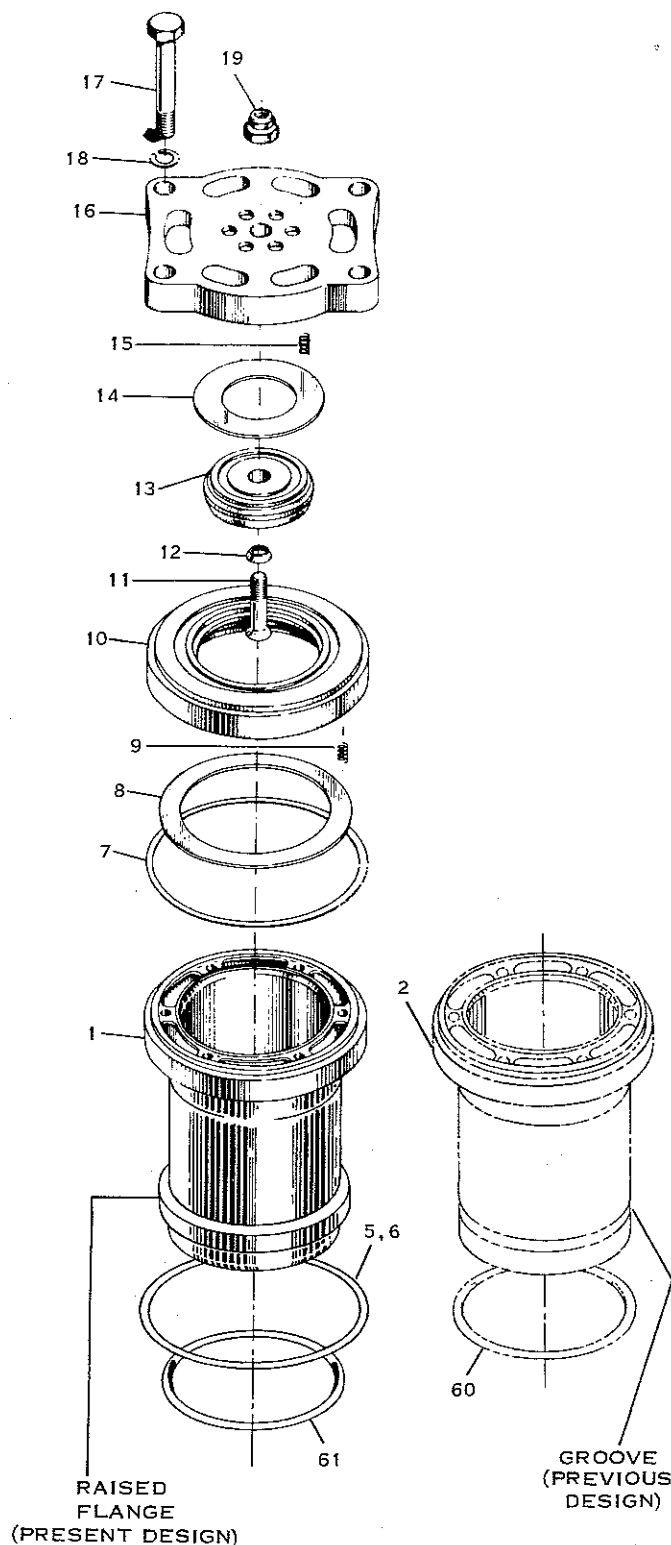
**FIG. 4 — SIGHT GLASS - INTERNAL TYPE
(HERMETIC COMPRESSOR) (SEE TABLE 2)**



**FIG. 5 — SIGHT GLASS - EXTERNAL TYPE
(HERMETIC COMPRESSOR) (SEE TABLE 2)**

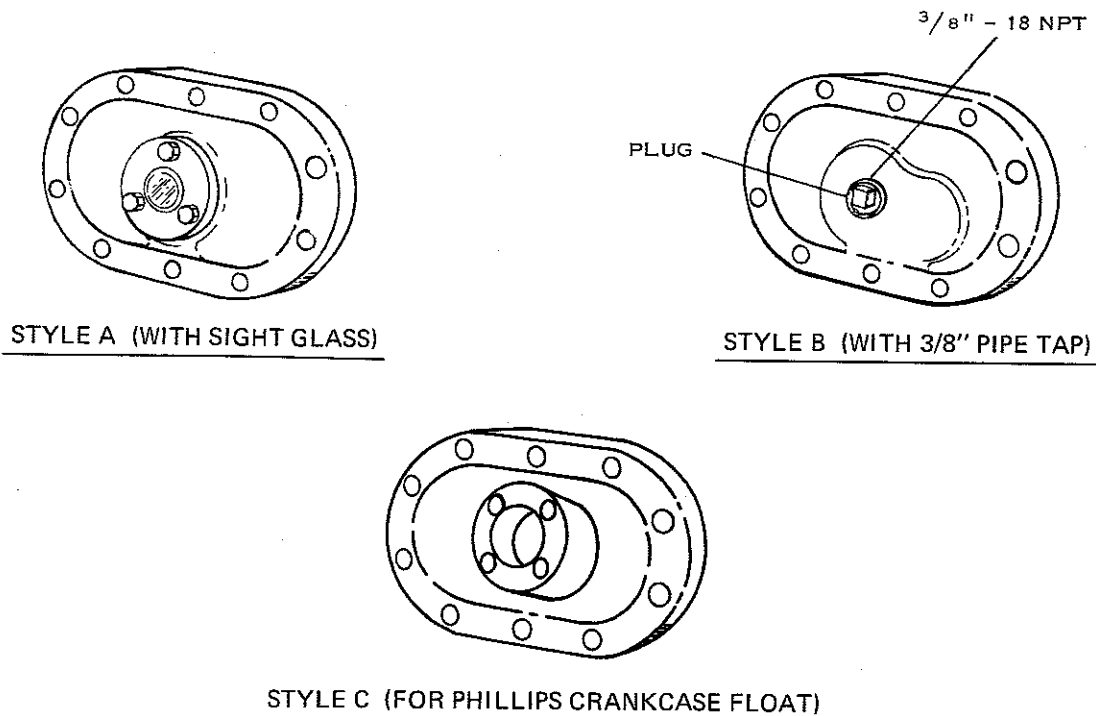


**FIG. 6 — SECTION THROUGH CYLINDER (SEE
TABLE 2) ALSO (SEE FIG. 7). ALSO SEE
NOTE 1 PAGE 6**



**FIG. 7 — EXPLODED VIEW - CYLINDER SLEEVE AND
VALVE ASSEMBLY (SEE TABLE 2)
ALSO SEE NOTE 1 PAGE 6**

COMPRESSOR — 2-5/8" BORE, TWO STAGE
FORM 185.10-RP1



No. of Cylinders	Style A	Style B		Style C
		Cover	Plug	
3	365-02996	065-03077	023-04298	365-18577
6	365-02996	065-03077	023-04298	365-18577
9	365-03050	065-03078	023-04298	365-18578

FIG. 8 — HAND HOLE COVERS

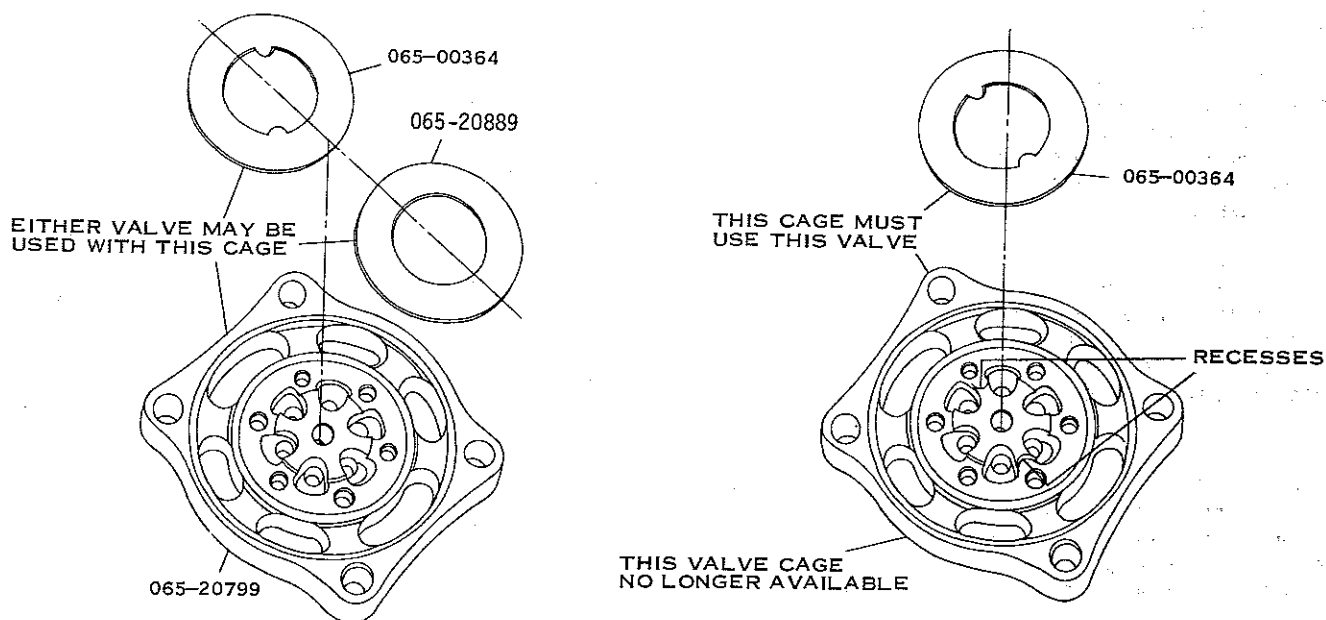


FIG. 9 — DISCHARGE VALVES & CAGES (See Note 3, page 6)

TABLE 2 — HERMETIC COMPRESSOR PARTS

Item No.	Fig.	Description	No. of Cylinders		
			3	6	9
1 ¹	7	Sleeve, Cylinder (Present Design) No. Req'd.	065-19206 3	065-19206 6	165-19206 9
2 ¹	7	Sleeve, Cylinder (Previous Design) No. Req'd.	065-04142 3	065-04142 6	065-04142 9
3 ¹	7	Cylinder Sleeve Assembly (Includes Items 1, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19 & 61) (Present Design) No. Req'd.	365-19207 3	365-19207 6	365-19207 9
4 ¹	7	Cylinder Sleeve Assembly (Includes Items 2, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19 & 60) (Previous Design) No. Req'd.	365-04153 3	365-04153 6	365-04153 9
6	7	Gasket, Cyl. Sleeve — .010" Thick	070-07378	070-07378	070-07378
7	7	Gasket, Suction Valve (Spacer — .010")	070-07378	070-07378	070-07378
8 ²	7	Valve, Suction	065-00836	065-00836	065-00836
9	7	Spring, Suction Valve (6 Req'd. Per Cyl.)	029-04641	029-04641	029-04641
10 ²	7	Plate, Discharge Valve	065-02444	065-02444	065-02444
11	7	Screw, Discharge Valve	021-01068	021-01068	021-01068
12	7	Gasket, Beveled	028-00574	028-00574	028-00574
13	7	Plate, Inner Discharge Valve	065-03031	065-03031	065-03031
14 ³	7	Valve, Discharge	065-20889	065-20889	065-20889
		Valve, Discharge	065-00364	065-00364	065-00364
15	7	Spring, Discharge Valve (6 Req'd. Per Cyl.)	029-04349	029-04349	029-04349
16 ³	7	Cage, Discharge Valve	065-20799	065-20799	065-20799
17	7	Screw, Cap 3/8" X 2" (4 Req'd. Per Cyl.)	021-01510	021-01510	021-01510
18	7	Lockwasher, Spring 3/8"	021-05291	021-05291	021-05291
19	7	Nut, Self Locking	021-09610	021-09610	021-09610
20	3	Valve, Relief, Internal (2 Req'd.)	022-01146	022-01146	022-01146
21	3	Crankshaft	065-14681	065-14682	065-14683
22	3	Bearing (2 Req'd.)	029-09052	029-09052	029-09052
23	3	Bearing	029-05210	029-05210	029-05210
24	3	Collar, Thrust (2 Req'd.)	029-06183	029-06183	029-06183

¹ See Figures 6 & 7. Present design cylinder sleeve (item 1 above and Figs. 6 & 7) has a raised flange at the bottom which fits into a recess in the compressor deck. "O" ring, item 61, must be used with cylinder sleeve, item 1. Previous design cylinder sleeve (item 2 above and Figs. 6 & 7) has a groove at the bottom to accommodate the "O" ring and the compressor deck was not recessed. "O" Ring, item 60, must be used with cylinder sleeve, item 2. *Cylinder sleeve, item 1, cannot be used in a compressor that does not have a recess in the deck. Cylinder sleeve, item 2, cannot be used in a compressor that has a recess in the deck.*

² Beginning with Compressor Number 2481BC (Serial No. M0174262) manufactured in November 1962, the ears or guides on the suction valves and the recesses in the discharge valve plates for suction valve guides have been eliminated. Suction valves now are circular in appearance. The new valve may be used with the original discharge valve plate which was recessed for valve guides, but the old valves cannot be used with the new valve plates. The York part number of the new suction valve is listed above.

³ Beginning with Compressor Number 4-8C2C (Serial Number P0008285) manufactured in February 1964, the ears or guides on the discharge valves and the recesses in the discharge valve cages for discharge valve guides have been eliminated. Discharge valves now are circular in appearance. The old valve can be used with the new cage, but the new valve cannot be used with the old cage. (See Fig. 9). The York part number of the new discharge valve is 065-20889 and the York part number of the new discharge valve cage is 065-20799. The York part number of the old discharge valve is 065-00364. The old discharge valve cage is no longer available.

TABLE 2 —HERMETIC COMPRESSOR PARTS (CONT'D)

COMPRESSOR — 2-5/8" BORE, TWO STAGE
FORM 185.10-RP1

Item No.	Fig.	Description	No. of Cylinders		
			3	6	9
25	3	Pin (Roll Pin)	029-05395	029-05395	029-05395
26	4	Strainer, Oil	365-17308	365-17308	365-17308
27	4	Connection, Housing To Strainer	365-15477	365-15477	365-15477
28	3	Heater; 150 Watt, 120 Volt { Mounted in End }	025-09423		
		Heater; 300 Watt, 120 Volt { of Compr. }			
29	4	Gasket, Hand Hole Cover	070-06898	025-09422	025-09422
30	4	Screw, Cap, Hand Hole Cover	021-01483	021-01483	021-01483
		No. Req'd.	10 Per Cover	10 Per Cover	14 Per Cover
31	4	Glass, Oil Sight	026-02634	026-02634	026-02634
32	4	Gasket, Oil Sight Glass, Outside	070-02399	070-02399	070-02399
33	4	Gasket, Oil Sight Glass Inside	070-06905	070-06905	070-06905
34	4	Support, Sight Glass	065-02572	065-02572	065-02572
35	4	Screw, Cap, Oil Sight Glass (4 Req'd.)	021-01379	021-01379	021-01379
36	4	Elbow, Oil Return	023-01688	023-01688	023-01688
37	3	Gasket, Top Head	070-07437	070-06899	070-07436
38	3	Screw, Cap, Top Hd. 7/16 X 3	021-09576	021-09576	021-09576
		No. Req'd.	24	36	48
39	3	Screw, Cap Top Hd. 7/16 X 3-5/8	021-09577	021-09577	021-09577
		No. Req'd.	6	6	6
40	3	Piston, Complete (Consists of items 41, 42, 43, 44 & 44A)	365-24141	365-24141	365-24141 ▲
41	3	Pin, Piston	029-13884	029-13884	029-13884 ▲
42	3	Piston, Bare	065-23812	065-23812	065-23812 ▲
43	3	Ring, Piston, Ventilated	029-06182	029-06182	029-06182 ▲
44	3	Ring, Piston, Plain	029-03525	029-03525	029-03525 ▲
44A	3	Ring, Retaining (2 Req'd.)	029-13764	029-13764	029-13764 ▲
45	3	Connecting Rod, Plain	365-00374	365-00374	365-00374
		No. Req'd.	1	2	3
46	3	Conn, Rod, Needle Brg.	365-06001	365-06001	365-06001
		No. Req'd.	2	4	6
47	3	Oil Pump Assy. (Complete)	365-03009	365-03009	365-03009
48	3	Gasket, Oil Pump Cover	070-07166	070-07166	070-07166
49	3	Screw, Cap, Oil Pump Cover (5 Req'd.)	021-01433	021-01433	021-01433
50	3	Seal Cap, Oil Pressure Relief Valve	065-16729	065-16729	065-16729
51	3	Gasket, Seal Cap, Oil Relief Valve	065-21657	065-21657	065-21657
52	3	Spring, Oil Pressure Relief Valve	029-06143	029-06143	029-16143
53	3	Plunger, Oil Pressure Relief Valve	065-01331	065-01331	065-01331
54	3	Gasket, Bearing Head .010" Thick	070-07380	070-07380	070-07380
55	3	Gasket, Bearing Head .015" Thick	070-07379	070-07379	070-07379
56	3	Screw, Cap, Bearing Head (10 Req'd.)	021-01538	021-01538	021-01538
57	3	Valve, Oil Charging	022-01582	022-01582	022-01582
58	3	Ring, Packing, O-Ring	028-03856	028-03855	028-03855
59	3	Gasket, Flat	065-18098	065-18099	065-18099
60 ¹	7	Ring, Packing "O" Cylinder Sleeve (Previous Design)	028-05166	028-05166	028-05166
61	7	Ring, Packing "O" Cylinder Sleeve (Present Design)	028-07198	028-07198	028-07198
62	3	Screw, Cap 3/8" X 1-3/8"	021-01495	021-01495	021-01495
63	3	Screw, Cap 3/8" X 1-1/2"	021-01497	021-01497	021-01497
64	3	Screw, Cap, Crankshaft			
		9/16" X 1-3/4"	021-01606	021-01606	
		9/16" X 2 1/4"			021-13176
65	3	Lockwasher	021-05294	021-05294	021-05294
66	3	Coupling, Washer, Shaft	365-14875	365-14875	365-14875
67	3	Roll Pin, Coupling Washer	029-04545	029-04545	029-04545
68	3	Valve, Suction, Stop	022-01152	022-01393	022-01393
69	3	Suction Strainer Screen	026-10426	026-10425	026-10425

¹ See Note ¹, Page 6

TABLE 2 — HERMETIC COMPRESSOR PARTS (CONT'D)

Item No.	Fig.	Description	No. of Cylinders		
			3	6	9
70	3	Gasket, Suction Valve To Flange	028-00771	070-07381	070-07381
71	3	Gasket, Suction Stop Valve To Adapter	028-00540	028-00864	028-00864
72	3	Gasket, Adapter To Housing	070-09202	070-07337	070-07337
73	3	Gasket, Suction Strainer Screen To Housing	070-07381	070-07381	070-07381
74	3	Suction Strainer Screen	029-05351	029-05351	029-05351
75	3	Gasket, High Stage Suction Flange To Strainer Screen	028-00540	028-00864	028-00864
76	3	Gasket, Strainer To Motor Housing Cover (High Stage Suction)	028-00540	028-00864	028-00864
77	3	Valve, Discharge Stop	022-01359	022-01359	022-01359
78	3	Gasket, Discharge Valve To Adapter	070-09824	070-09824	070-09824
79	3	Gasket, Adapter To Top Head (3 Req'd.)	070-07354	070-07354	070-07354
80	3	Gasket, Discharge Valve To Flange	028-00771	028-00771	028-00771
81	3	Block, Terminal (9 Terminal Bolts)	065-14703	065-14703	065-14703
81	3	Block, Terminal (6 Terminal Bolts)	065-22335	065-22335	065-22335
82	3	Bushing, Terminal Bolt	025-10041	025-10041	025-10041
83	3	Packing, Terminal Bolt	028-01445	028-01445	028-01445
84	3	Bolt, Terminal	021-11581	021-11581	021-11581
85	3	Washer, Terminal, Square	028-04753	028-04753	028-04753
86	3	Washer, Terminal	021-07844	021-07844	021-07844
87	3	Washer, Terminal Spring	021-08627	021-08627	021-08627
88	3	Nut, Hex, Terminal Bolt	021-08581	021-08581	021-08581
89	3	Gasket, Terminal Block	070-15282	070-15282	070-15282
90	3	Fill Piece, Terminal Block (9 Terminal Bolt Motors Only)	065-14326	065-14326	065-14326
91	3	Screw, Cap, Terminal Block (When Item 90 Not Used)	021-01442	021-01442	021-01442
92	3	Box, Terminal	365-14707	365-15358	365-15358
93	3	Cover, Terminal Box	065-14704	065-14704	065-14704
94	3	Screw, Machine, Terminal Box	021-01715	021-01715	021-01715
95	3	Strip, Terminal, 440 Volt (9 Terminal Bolts)	065-14719	065-14719	065-14719
96	3	Strip, Terminal, 208/220 Bolt (9 Terminal Bolts)	065-15393	065-15393	065-15393
97	3	Terminal, Hermetic	025-09346	025-09346	025-09346
98	3	Plug, Stator Locking	065-19003	065-19003	065-19003
99	3	Gasket	065-19004	065-19004	065-19004
100	3	Head, Top, Low Stage (2 Req'd.)	065-02750	065-02538	065-03029
101	3	Head, Top, High Stage (1 Req'd.)	065-18669	065-18670	065-18671
102	3	Heater, Crankcase 240 Watt, 120 Volt	025-10463 ——— ———	——— 025-10462 ———	——— 025-10462 ———
		Heater, Crankcase 350 Watt, 120 Volt			
103	8	Hand Hole Cover	(See Fig. 8)	(See Fig. 8)	(See Fig. 8)
104	5	Glass, Oil Sight	026-10797	026-10797	026-10797
105	5	Screw, Cap	021-01372	021-01372	021-01372
106	5	Gasket, O-Ring	028-06791	028-06791	028-06791
*		Kit, Terminal Bolt (Consists of Items 82, 83, 85, 86, 87, 88)	365-23372	365-23372	365-23372
*		Thermostat, High Stage Discharge	025-09776	025-09776	025-09776
*		Gasket Set, Replacement Complete	365-16119	365-16120	365-16121
*		Thermal Expansion Valve, Heat Exchanger (Sporlan)	025-11042	025-11043	025-11043
*		Thermal Expansion Valve (Less Flange) Heat Exchanger (Alco)			
		R-12	025-13794	025-13797	025-13797
		R-22	025-13795	025-13798	025-13801
		R-502	025-13796	025-13799	025-13802
*		Heat Exchanger	365-21913	365-21914	365-21915
*		Crankcase Float Ass'y. (Includes Handhole Cover Plate)	365-20660	365-20660	365-20661
*		Crankcase Float	022-02474	022-02474	022-02474
*		Tool, Bearing Replacement, Complete	365-04453	365-04453	365-04453
*		Tool, Bearing	065-05117	065-05117	065-05117
*		Tool, Bearing, Tube	065-04456	065-04456	065-04456
*		Tool, Bearing, Plug	065-04454	065-04454	065-04454

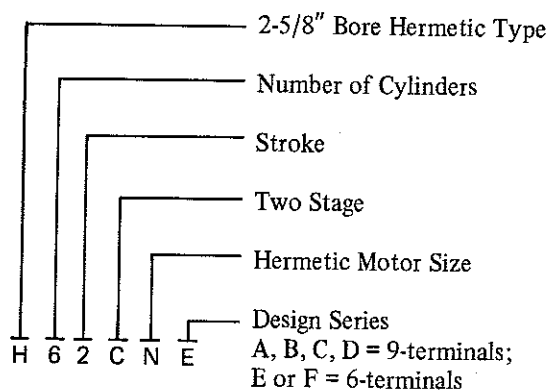
* Not Shown

ORDERING INSTRUCTIONS AND DESIGN HISTORY-HERMETIC MOTOR-COMPRESSOR

READ CAREFULLY BEFORE ORDERING REPLACEMENT HERMETIC COMPRESSOR

All 2-5/8" bore two stage hermetic compressors manufactured after September, 1968 have 6-lead motors. Older models were either 6-lead or 9-lead depending on motor voltage. Terminal blocks were all equipped with 9-terminals, with 3-terminals not used on some models. The new compressors can be identified by two methods:

1. Terminal boxes have 6-terminals.
2. Compressors equipped with the new 6-lead motors have the letters "E" or "F" in the model number. See following example:



When ordering a replacement hermetic compressor the following facts must be considered. The Service Warehouse at York contains compressors equipped with 9-terminal bolts. These will be supplied as replacements for existing 9-terminal bolt compressors until the present stock is

depleted. As the stock of 9-terminal bolt models is depleted the factory will substitute the new 6-terminal bolt models. The new 6-terminal bolt models can be used to replace 9-terminal bolt models by following the wiring diagram inside the terminal box cover.

If the factory makes a substitution as mentioned above, the exchange value on the defective 9-terminal bolt compressor will be honored. However, if an order is entered by the field for a 6-terminal bolt compressor to replace an existing 9-terminal bolt model, no exchange value will be allowed on the defective 9-terminal bolt compressor.

Compressors with 6-terminal bolts cannot be replaced with 9-terminal bolt models.

When ordering a replacement hermetic compressor select the correct part number from one of the following tables. The order must also include the following information:

1. Compressor model number including Design Series letter (see example at left).
2. Line voltage on which the compressor is operating.
3. Type starting — Across-the-line or part winding.
4. Number of terminals (6 or 9) on the terminal block.

Unless the above data is given on each order, the order will be returned for additional information.

REPLACEMENT COMPRESSORS

Replacement Compressors (9 Terminal Bolts)

Description	No. of Cylinders		
	3	6	9
208/220-440-3-60 AL	465-15667	465-15679	465-15695
208/220-3-60 PW	465-15667	465-15679	465-15695
220-2-60 PW	465-15668	465-15680	465-15696
440-3-60 PW	465-15669	465-15681	465-15697
480-3-60 PW	465-15883	465-15886	465-15891
550-3-60 PW	465-15670	465-15682	465-15698

Replacement Compressors (6 Terminal Bolts)

Description	No. of Cylinders		
	3	6	9
208-3-60	365-22719	365-22721	365-22723
220/240-3-60	365-22436	365-22439	365-22442
440/480-3-60	365-22437	365-22440	365-22443
550/600-3-60	365-22438	365-22441	365-22444
220-3-50	365-22720	365-22722	365-22724
380/400-3-50	365-23192	365-23193	365-23194

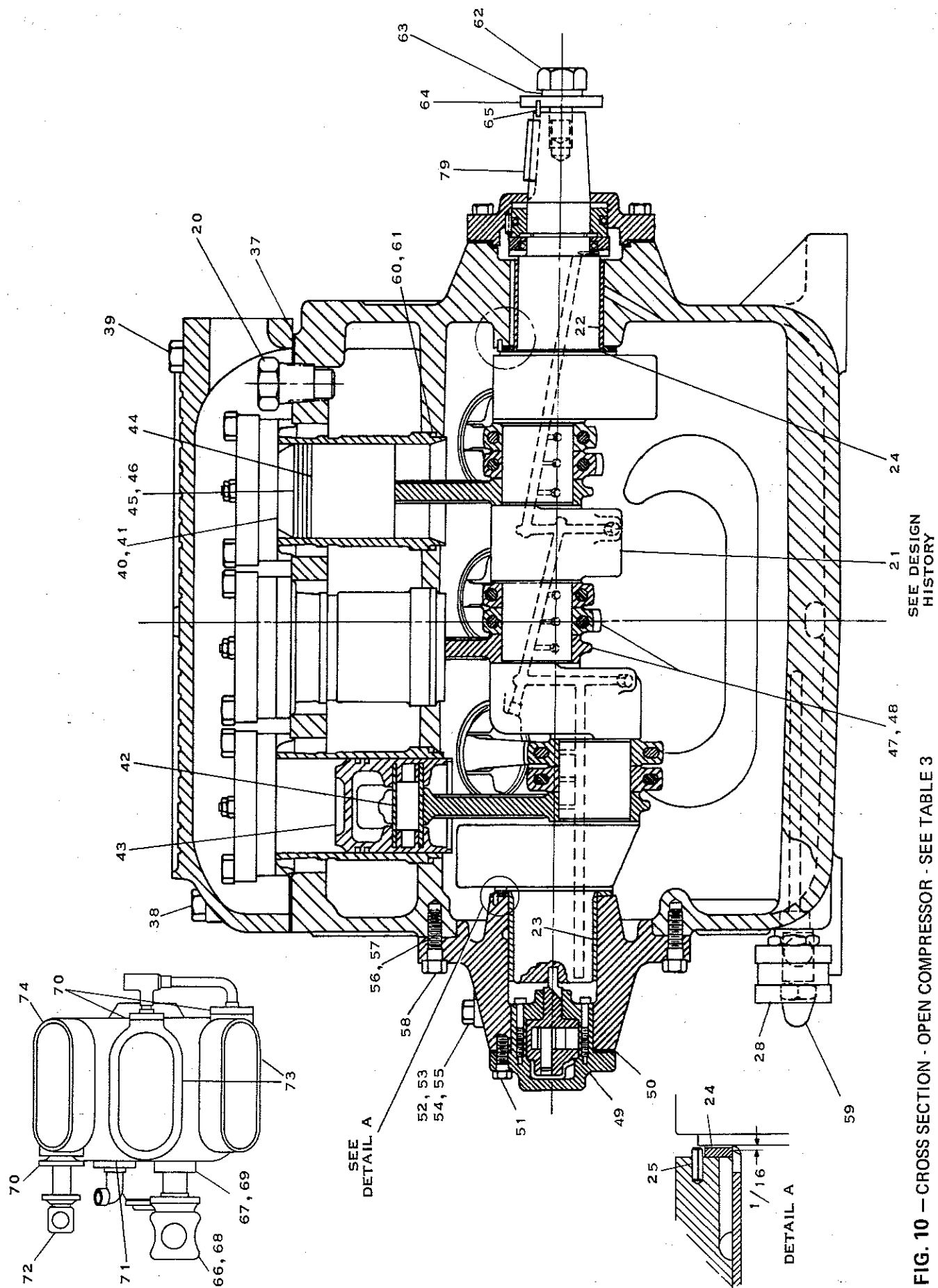


FIG. 10 — CROSS SECTION - OPEN COMPRESSOR - SEE TABLE 3

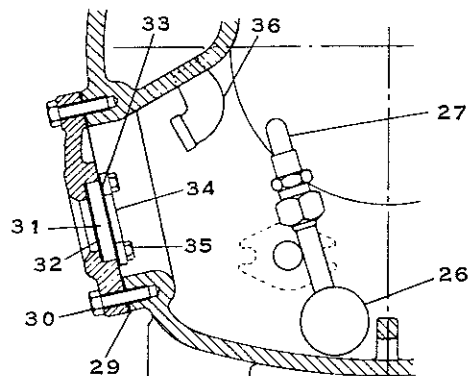


FIG 11 — SIGHT GLASS - INTERNAL TYPE
(OPEN COMPRESSOR)(SEE TABLE 3)

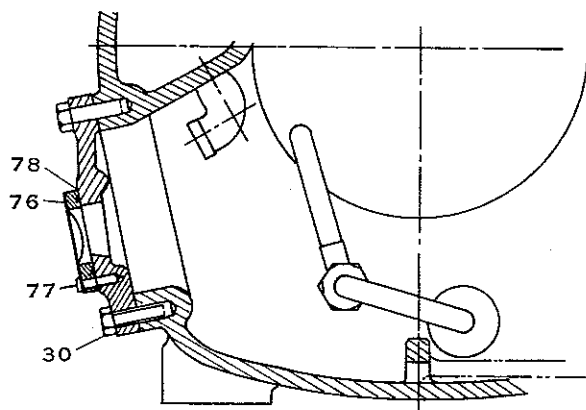


FIG. 12 — SIGHT GLASS - EXTERNAL TYPE
(OPEN COMPRESSOR)(SEE TABLE 3)

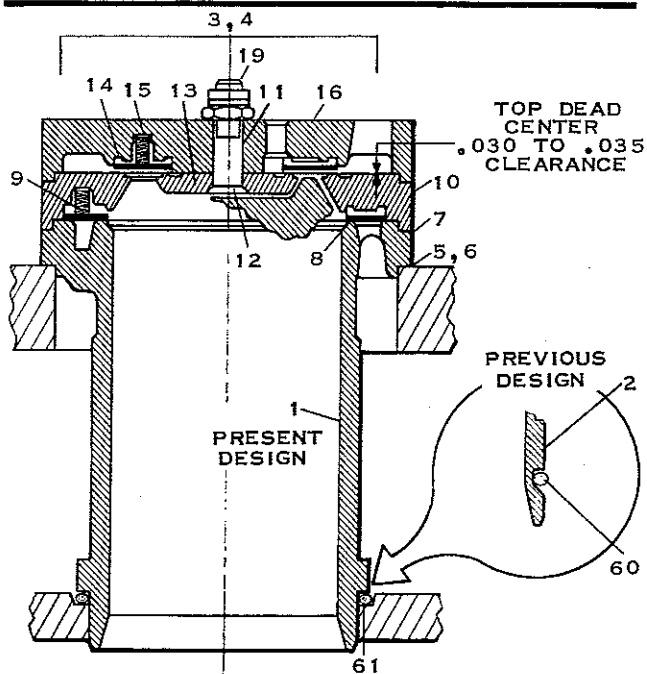


FIG. 13 — SECTION THROUGH CYLINDER (SEE
TABLE 3) ALSO SEE FIG. 14
ALSO SEE NOTE 1 PAGE 13

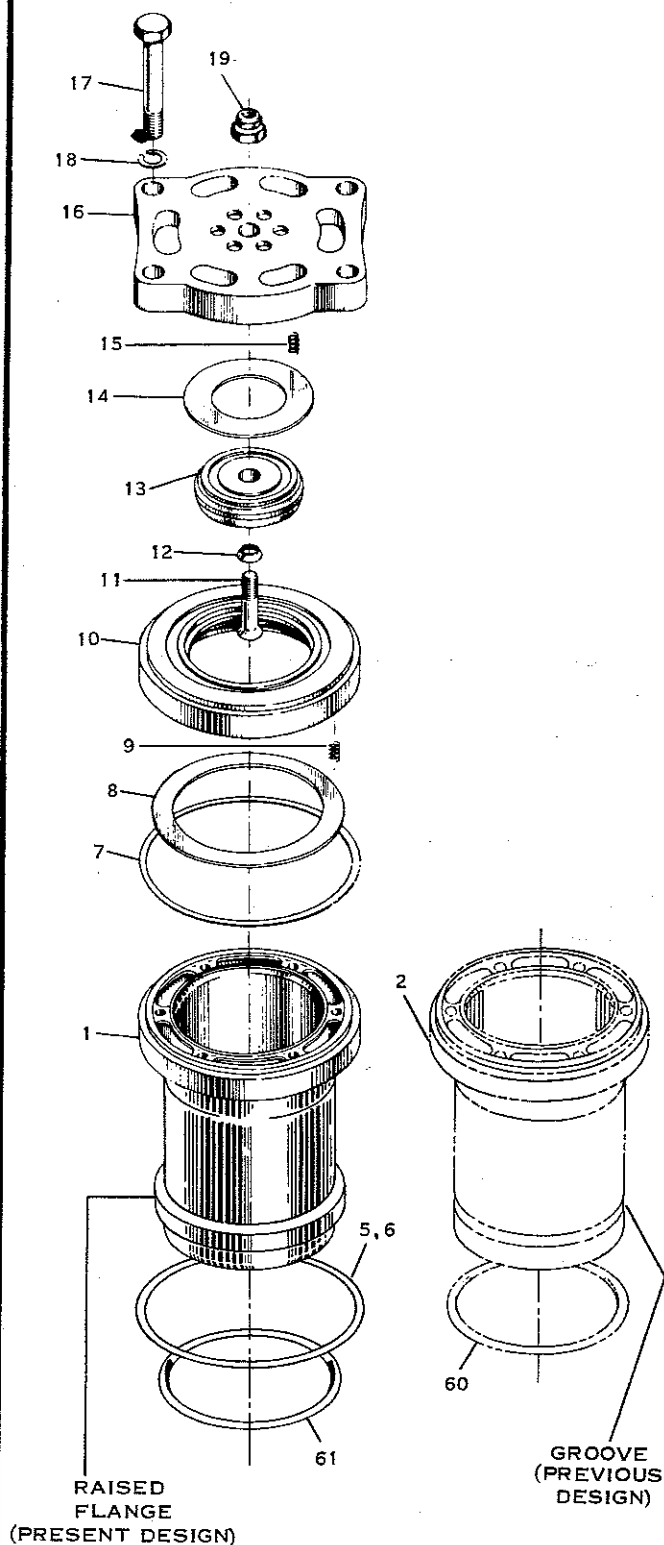
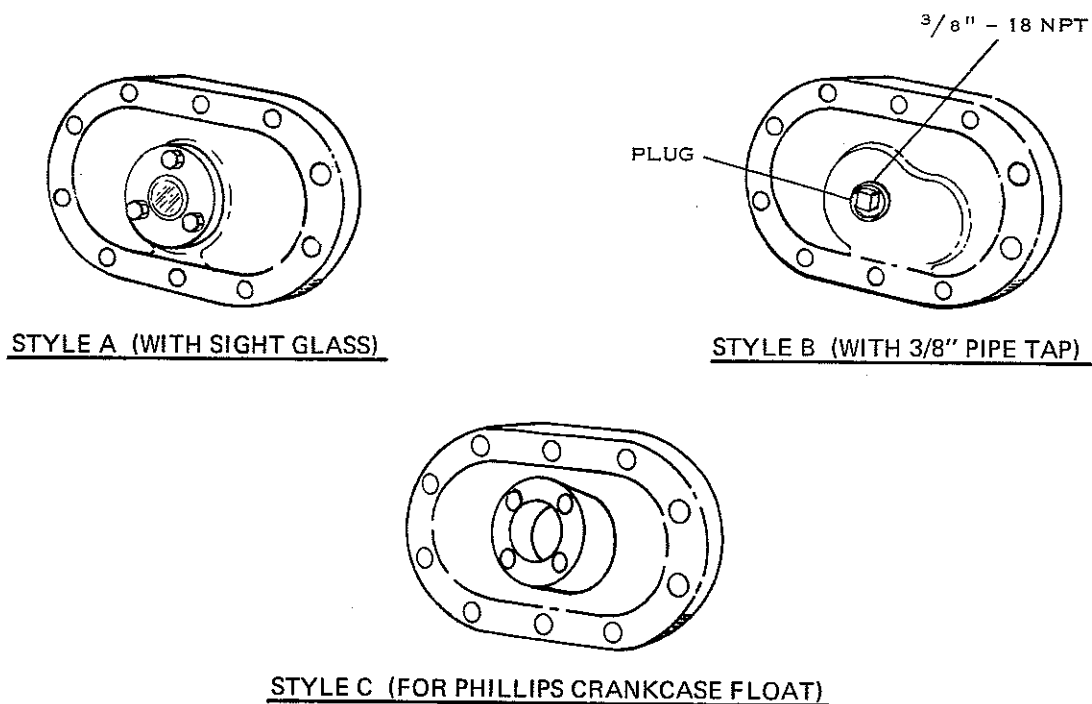


FIG. 14 — EXPLODED VIEW - CYLINDER SLEEVE AND
VALVE ASSEMBLY (SEE TABLE 3)
ALSO SEE NOTE 1 PAGE 13



No. of Cylinders	Style A	Style B		Style C
		Cover	Plug	
3	365-02996	065-03077	023-04298	365-18577
6	365-02996	065-03077	023-04298	365-18577
9	365-03050	065-03078	023-04298	365-18578

FIG. 15 — HAND HOLE COVERS

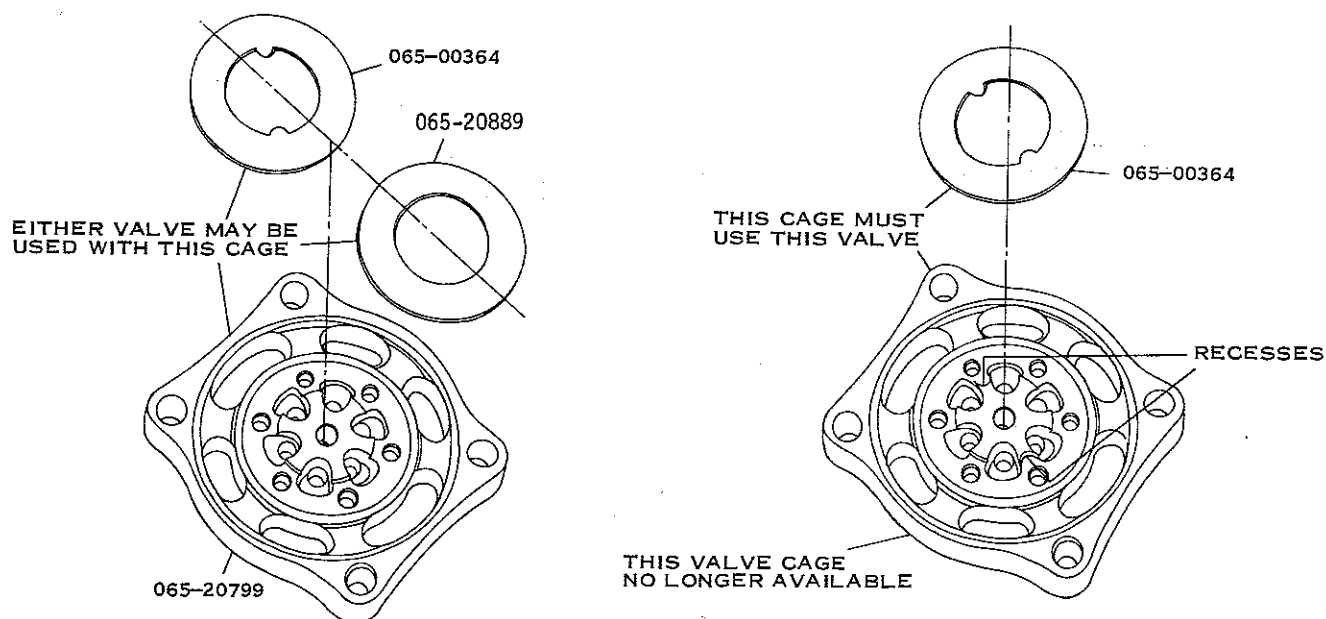


FIG. 16 — DISCHARGE VALVES & CAGES (See Note 3, page 13)

TABLE 3 — OPEN COMPRESSOR PARTS

Item No.	Fig.	Description	No. of Cylinders		
			3	6	9
1 ¹	14	Sleeve, Cylinder (Present Design) No. Req'd.	065-19206 3	065-19206 6	065-19206 9
2 ¹	14	Sleeve, Cylinder (Previous Design) No. Req'd.	065-04142 3	065-04142 6	065-04142 9
3 ¹	14	Cylinder Sleeve Assembly (Includes Items 1, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19 & 61) (Present Design)	365-19207	365-19207	065-19207
4 ¹	14	Cylinder Sleeve Assembly (Includes Items 2, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 19 & 60) (Previous Design)	365-04153	365-04153	365-04153
6	14	Gasket, Cyl. Sleeve—.010" Thick	070-07378	070-07378	070-07378
7	14	Gasket, Suction Valve (Spacer—.010")	070-07378	070-07378	070-07378
8 ²	14	Valve, Suction	065-00836	065-00836	065-00836
9	14	Spring, Suction Valve (6 Req'd. Per Cyl.)	029-04641	029-04641	029-04641
10 ²	14	Plate, Discharge Valve	065-02444	065-02444	065-02444
11	14	Screw, Discharge Valve	021-01068	021-01068	021-01068
12	14	Gasket, Beveled	028-00574	028-00574	028-00574
13	14	Plate, Inner Discharge Valve	065-03031	065-03031	065-03031
14 ³	14	Valve, Discharge	065-20889	065-20889	065-20889
		Valve, Discharge	065-00364	065-00364	065-00364
15	14	Spring, Discharge Valve (6 Req'd. Per Cyl.)	029-04349	029-04349	029-04349
16	14	Cage, Discharge Valve	065-20799	065-20799	065-20799
17	14	Screw, Cap—3/8" X 2" (4 Req'd. Per Cyl.)	021-01510	021-01510	021-01510
18	14	Lockwasher, Spring—3/8"	021-05291	021-05291	021-05291
19	14	Nut, Self Locking	021-09610	021-09610	021-09610
20	10	Valve, Relief, Internal (2 Req'd.)	022-01146	022-01146	022-01146
21	10	Crankshaft (See Design History)	065-02749-001	065-02446-001	065-03054-001
22	10	Bearing, Seal End	029-05210	029-05210	029-05210
23	10	Bearing, Pump End	029-05210	029-05210	029-05210
24	10	Collar, Thrust (2 Req'd.)	029-06183	029-06183	029-06183
25	10	Pin (Roll Pin)	029-05395	029-05395	029-05395
26	11	Strainer, Oil	365-17308	365-17308	365-17308
27	11	Connection, Housing To Strainer	365-15477	365-15477	365-15477
28	10	Heater; 150 Watt, 120 Volt	025-09423	—	—
		Heater; 300 Watt, 120 Volt	—	025-09422	025-09422
29	11	Gasket, Handhole Cover	070-06898	070-06898	070-07509
30	11	Screw, Cap, Handhole Cover	021-01483	021-01483	021-01483
		No. Req'd. Per Cover	10	10	14

¹ See Figures 13 & 14. Present design cylinder sleeve (item 1 above and Figs. 13 & 14) has a raised flange at the bottom which fits into a recess in the compressor deck. "O" ring, item 61, must be used with cylinder sleeve, item 1. Previous design cylinder sleeve (item 2 above and Figs. 13 & 14) has a groove at the bottom to accommodate the "O" ring and the compressor deck was not recessed. "O" Ring, item 60, must be used with cylinder sleeve, item 2. *Cylinder sleeve, item 1, cannot be used in a compressor that does not have a recess in the deck. Cylinder sleeve, item 2, cannot be used in a compressor that has a recess in the deck.*

² Beginning with Compressor Number 2481BC (Serial No. M0174262) manufactured in November 1962, the ears or guides on the suction valves and the recesses in the discharge valve plates for suction valve guides have been eliminated. Suction valves now are circular in appearance. The new valve may be used with the original discharge valve plate which was recessed for valve guides, but the old valves cannot be used with the new valve plates. The York part number of the new suction valve is listed above.

³ Beginning with Compressor Number 4-8C2C (Serial Number P0008285) manufactured in February 1964, the ears or guides on the discharge valves and the recesses in the discharge valve cages for discharge valve guides have been eliminated. Discharge valves now are circular in appearance. The old valve can be used with the new cage, but the new valve cannot be used with the old cage. (See Fig. 9). The York part number of the new discharge valve is 065-20889 and the York part number of the new discharge valve cage is 065-20799. The York part number of the old discharge valve is 065-00364. The old discharge valve cage is no longer available.

TABLE 3 — OPEN COMPRESSOR PARTS (CONT'D)

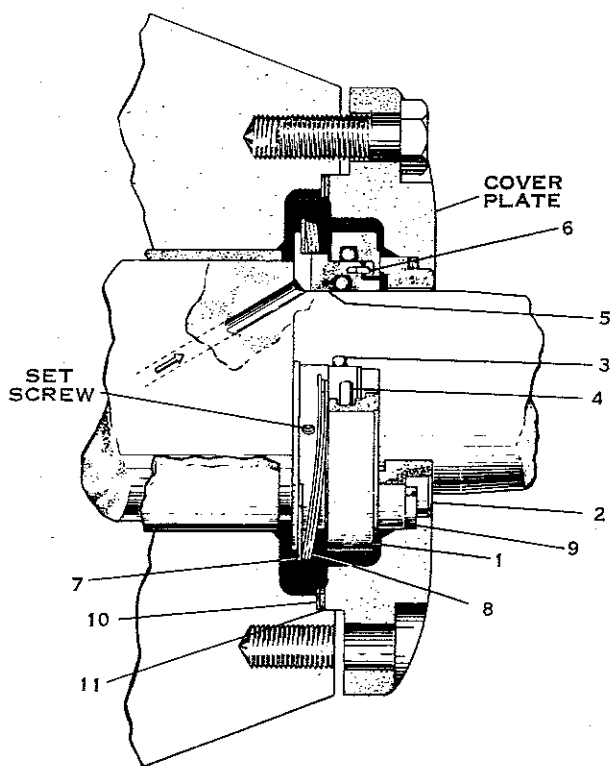
Item No.	Fig.	Description	No. of Cylinders		
			3	6	9
31	11	Glass, Oil Sight	026-02634	026-02634	026-02634
32	11	Gasket, Oil Sight Glass, Outside	070-02399	070-02399	070-02399
33	11	Gasket, Oil Sight Glass, Inside	070-06905	070-06905	070-06905
34	11	Support, Sight Glass	065-02572	065-02572	065-02572
35	11	Screw, Cap, Oil Sight Glass (4 Req'd.)	021-01379	021-01379	021-01379
36	11	Elbow, Oil Return	023-01688	023-01688	023-01688
37	10	Gasket, Top Head	070-07437	070-06899	070-07436
38	10	Screw, Cap, Top Head 7/16 X 3 No. Req'd.	021-09576 24	021-09576 36	021-09576 48
39	10	Screw, Cap, Top Head 7/16 X 3-5/8 No. Req'd.	021-09577 6	021-09577 6	021-09577 6
▲ 40	10	Piston, Complete - Halocarbon (Consists of items 42,43,44,45 & 46A)	365-24141	365-24141	365-24141
▲ 41	10	Piston, Complete - Ammonia (Consists of 42,43,44,46 & 46A)	365-20756	365-20756	365-20756
▲ 42	10	Pin, Piston	029-13884	029-13884	029-13884
▲ 43	10	Piston, Bare	065-23812	065-23812	065-23812
▲ 44	10	Ring, Piston, Ventilated	029-06182	029-06182	029-06182
▲ 45	10	Ring, Piston, Plain - Halocarbon	029-03525	029-03525	029-03525
▲ 46	10	Ring, Piston, Plain - Ammonia	029-10562	029-10562	029-10562
▲ 46A	10	Ring, Retaining (2 Req'd.)	029-13764	029-13764	029-13764
47	10	Connecting Rod, Plain No. Req'd. — Halocarbon	365-00374 1	365-00374 2	365-00374 3
48	10	Connecting Rod, Needle Brg. No. Req'd. — Halocarbon No. Req'd. — Ammonia	365-06001 2 3	365-06001 4 6	365-06001 6 9
49	10	Oil Pump Ass'y (Complete)	365-03009	365-03009	365-03009
50	10	Gasket, Oil Pump Cover	070-07166	070-07166	070-07166
51	10	Screw, Cap, Oil Pump Cover (5 Req'd.)	021-01433	021-01433	021-01433
52	10	Seal Cap, Oil Pressure Relief Valve	065-06394	065-06394	065-06394
53	10	Gasket, Seal Cap, Oil Relief Valve	065-21657	065-21657	065-21657
54	10	Spring, Oil Pressure Relief Valve	029-06143	029-06143	029-06143
55	10	Plunger, Oil Pressure Relief Valve	065-01331	065-01331	065-01331
56	10	Gasket, Bearing Hd.—010" Thick	070-07380	070-07380	070-07380
57	10	Gasket, Bearing Hd.—015" Thick	070-07379	070-07379	070-07379
58	10	Screw, Cap, Bearing Head (10 Req'd.)	021-01538	021-01538	021-01538
59	10	Valve, Oil Charging	022-01582	022-01582	022-01582
60 ¹	14	Ring, Packing "O", Cylinder Sleeve (Previous Design)	028-05166	028-05166	028-05166
61 ¹	14	Ring, Packing "O", Cylinder Sleeve (Present Design)	028-07198	028-07198	028-07198
62	10	Screw, Cap, Crankshaft	021-01605	021-01605	021-01605
63	10	Lockwasher	021-05294	021-05294	021-05294
64	10	Coupling Washer, Shaft	365-00368	365-00368	365-00368
65	10	Roll Pin, Coupling Washer	029-04545	029-04545	029-04545
66	10	Valve, Suction, Stop	022-01152	022-01393	022-01393
67	10	Suction Strainer Screen	029-05351	029-05351	029-05351
68	10	Gasket, Suction Stop Valve	028-00540	028-00864	028-00864
69	10	Gasket, Suction Manifold To Housing	070-09202	070-07337	070-07337
70	10	Gasket	070-07354	070-07354	070-07354
71	10	Gasket, 2nd Stage Suct. Elbow	070-08862	070-07337	070-07337
72	10	Valve, Discharge Stop	022-01359	022-01359	022-01359
73	10	Head, Top, Low Stage (2 Req'd.)	065-02750	065-02538	065-03029
74	10	Head, Top, High Stage (1 Req'd.)	065-18669	065-18670	065-18671
75	15	Hand Hole Cover (See Fig. 15)	(See Fig. 15)	(See Fig. 15)	(See Fig. 15)
76	12	Glass, Oil Sight	026-10797	026-10797	026-10797
77	12	Screw, Cap	021-01372	021-01372	021-01372
78	12	Gasket, O—Ring	028-06791	028-06791	028-06791
79	10	Key, Crankshaft	068-00249	068-00249	068-00249

¹ See Note ¹ Page 13

TABLE 3 — OPEN COMPRESSOR PARTS (CONT'D)

	Description	No. of Cylinders		
		3	6	9
* * *	Thermal Expansion Valve, Heat Exchanger (Sporlan) Thermostat, High Stage Discharge Thermal Expansion Valve (Less Flange) Heat Exchanger (Alco) R-12 R-22 R-502	025-11042 025-09776	025-11043 025-09776	025-11043 025-09776
* *	Heat Exchanger Crankcase Float Ass'y. (Includes Hanhole Cover Plate)	365-21913 365-20660	365-21914 365-20660	365-21915 365-20661
* * *	Crankcase Float Gasket Set, Replacement Complete Compressor, Replacement, Bare With Discharge Manifold, Stop Valves, Oil Charge And Crankcase Heater, Less Base And Oil Failure Switch	022-02474 365-23674 365-18698	022-02474 365-23675 365-18699	022-02474 365-23676 365-18700
* * * *	Tool, Bearing Replacement, Complete Tool, Bearing Tool, Bearing, Tube Tool, Bearing, Plug	365-04453 065-05117 065-04456 065-04454	365-04453 065-05117 065-04456 065-04454	365-04453 065-05117 065-04456 065-04454

* Not Shown

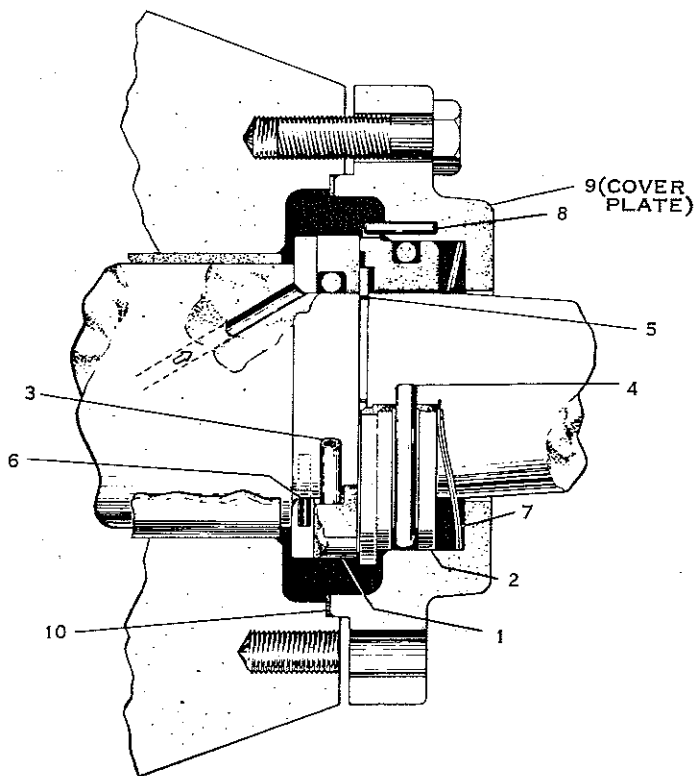


BALANCED TYPE SHAFT SEAL CONVERSION KIT
PARTS FOR 3, 6 & 9 CYLINDER COMPRESSORS.

Item No.	Description	Part Number
1	Collar, Seal, Rotating (Cast Iron)	065-09567
2	Ring, Seal, Stationary (Carbon)	065-09576
3	Ring, "O", Collar Support to Shaft	028-05188
4	Ring, "O", Seal Collar to Support	028-03803
5	Support, Collar, Rotating, with Roll Pin and Set Screws	365-15012
6	Pin, Roll, Collar to Collar Support	029-07102
7	Washer, Flat	065-14966
8	Spring, Curved — 3 Required	029-11354
9	Gasket, Carbon Seal Ring to Cover Plate	028-01433
10	Gasket, Cover Plate .010" Thick	070-15948
11	Gasket, Cover Plate .015" Thick	070-03357
1-10	Kit, Conversion, Shaft Seal, Complete	365-09571
1-4	Shaft Seal Assembly (After Conversion)*	365-15513

* Used as Replacement After Conversion Kit has been installed.

FIG. 17 — CONVERSION KIT - BALANCED SHAFT SEAL (SEE DESIGN HISTORY)



BALANCED TYPE SHAFT SEAL PARTS FOR 3, 6 & 9 CYLINDER COMPRESSORS.

Item No.	Description	Part Number
1	Collar, Seal, Rotating (Cast Iron)	065-09573
2	Ring, Seal, Stationary (Carbon)	065-20830
3	Ring, Packing "O", Seal Collar	028-07418
4	Ring, Packing "O", Seal Ring	028-08125
5	Ring, Retaining	029-07100
6	Pin, Roll, Collar to Shaft	029-07238
7	Spring, Curved, 2 Required	029-07193
8	Pin, Roll, Seal Ring to Cover Plate	029-07238
9	Cover Plate, Shaft Seal	065-09566
10	Gasket, Cover Plate .015" Thick	070-03357
1-5	Shaft Seal Assembly	365-15191

FIG. 18 — BALANCED SHAFT SEAL - (SEE DESIGN HISTORY)

DESIGN HISTORY

SHAFT SEAL & CRANKSHAFT

Earliest design 2-5/8" bore two stage open type compressors were equipped with a shaft seal using leaf type springs. (See Fig. 17). This design was later changed to a BALANCED type shaft seal using circular curved type springs. (See Fig. 18). The most positive method of identification is by the cover plate. Note that the earlier design shaft seal shown in Fig. 17 has a cover plate that is almost flat on the outside, whereas the BALANCED type shaft seal shown in Fig. 18 has a cover plate with a raised center on the outside. This seal is described in Instruction Form 180.15-N1.1 (Coded 158).

If it becomes necessary to order a replacement crankshaft for an existing 2-5/8" bore open type compressor, the crankshaft must be of the later type (with retaining ring groove and a hole for the roll pin to accommodate the BALANCED seal parts). New replacement crankshafts without the retaining ring groove and roll pin hole are no longer available. It is therefore necessary when a new replacement crankshaft is installed, to install the BALANCED type shaft seal parts plus the cover plate.

If the compressor contains an old style crankshaft (without retaining ring groove and roll pin hole) and this shaft is in usable condition, it may be removed and a ring groove and roll pin hole machined in it in accordance with Form 180.15-N1 (Supl. 2) [3W-H (Supl. 2)]. If this procedure is followed, a BALANCED Type Shaft Seal and new cover plate must be used.

NOTE: If the compressor is of the belt driven type, it will be necessary to have 3/8" machined from the face of the flywheel hub on the larger bore (compressor side) of this hub to permit proper clearance for the new shaft seal cover plate.

The most satisfactory repair procedure for shaft seals for Model AF and AFX compressors is outlined above. However, if desired, the BALANCED Shaft Seal Conversion Kit, may be used. (See Fig. 17). For installation procedure, see Instruction Form 180.15-N1.1 (Coded 158).

HERMETIC MOTORS

See ordering instructions, page 9.