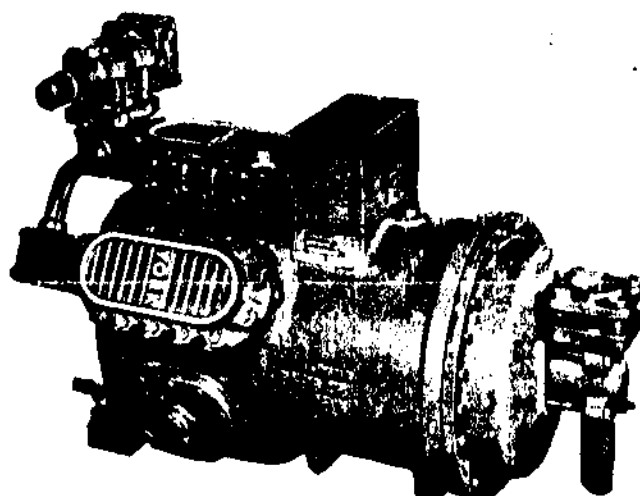
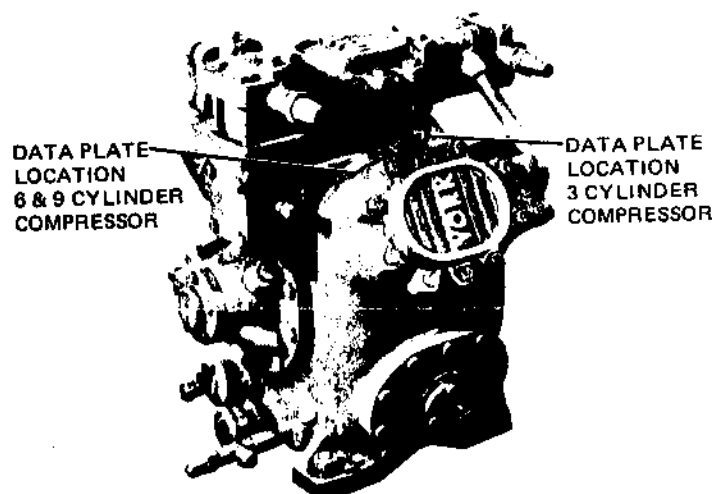




HERMETIC



OPEN

FIG. 1 — COMPRESSOR DATA PLATE LOCATION

TABLE 1 — COMPRESSOR MODEL NUMBER CROSS REFERENCE AND REPLACEMENT LIST

Model Numbers	Type	No. of Cylinders	No. of Active Cylinders	Replacement
H103, H32SL, HS32L	HERMETIC	3	3	SS42 — See Form 180.40-RP1
H153, H32SM, HS32M		3	3	
HS256 ¹ , H51S ¹		6	5 ²	SS42 — See Form 180.40-RP1
H256 ¹ , H61S ¹		6	6	SS62 — See Form 180.40-RP1
H206, H306, H62S, HS62		6	6	SS62 — See Form 180.40-RP1
H309, H459, H92S, HS92		9	9	SS82 — See Form 180.40-RP1
(A) or (B) F235B, BFX235B (A) or (B) F236B, BFX237B (A) or (B) F239(B) or (D), BFX238B BFX239(B) or (D) F32S, FS32	OPEN	3	3	465-16740 ³
(A) or (B) F266B, BFX266B (A) or (B) F267B, BFX267B (A) or (B) F269(B) or (D), BFX268B BFX269(B) or (D) F62S, FS62		6	6	465-16741 ³
(A) or (B) F297B, (A) or (B) F298B (A) or (B) F299(B) or (D), BFX299D F92S, FS92		9	9	465-16742 ³

¹ 1-7/8" stroke, all others are 2-1/4" stroke.

² Suction valve removed from one cylinder.

³ Compressor, Bare with Discharge Manifold, Stop Valves, Suction Pressure Actuated Capacity Control, Oil Charge and Crankcase Heater, Less Base and Oil Failure Switch.

FIG. 2 — CROSS SECTION — HERMETIC COMPRESSOR (SEE TABLE 2)

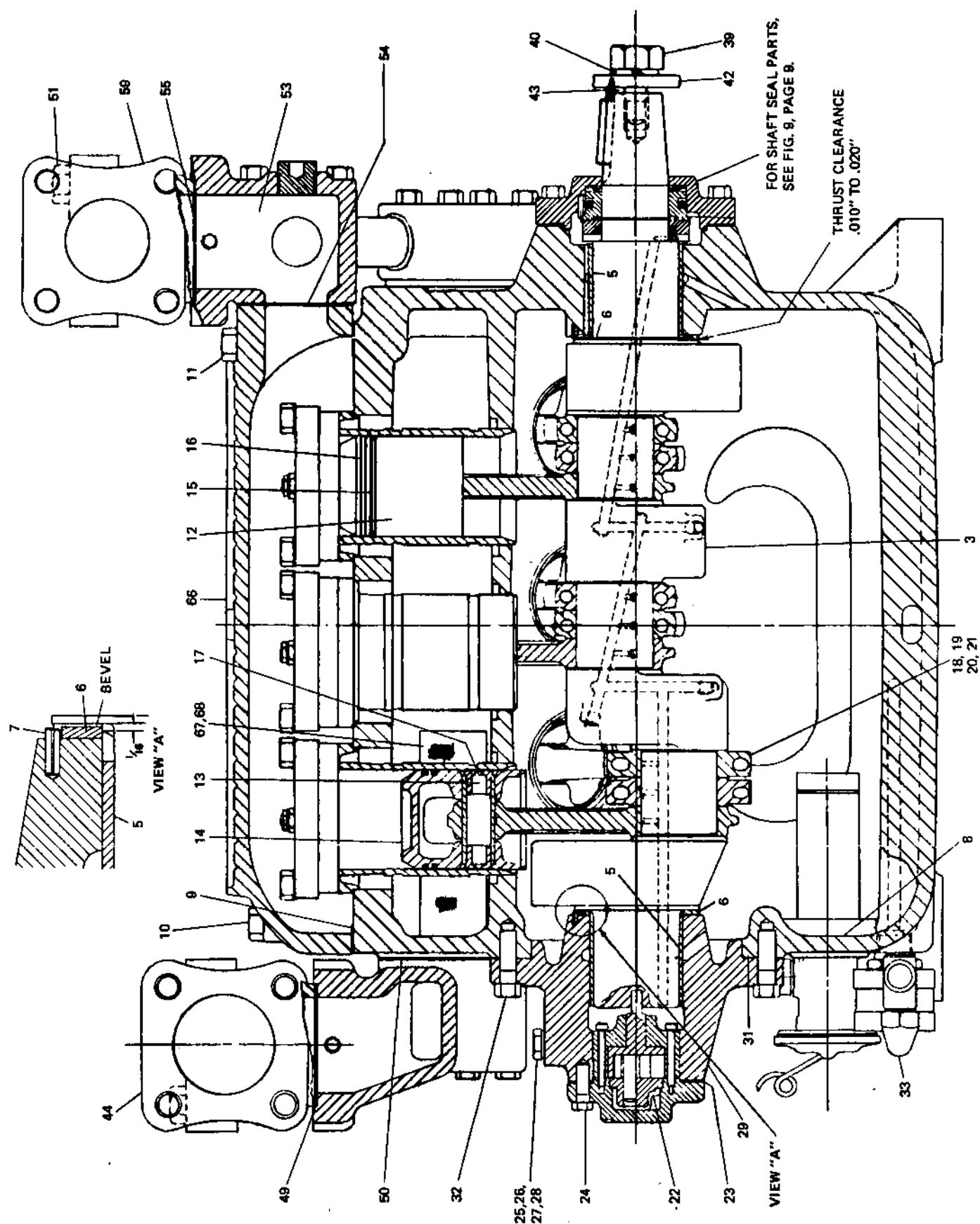


FIG. 3 — CROSS SECTION — OPEN COMPRESSOR (SEE TABLE 2)

TABLE 2 — HERMETIC AND OPEN COMPRESSOR PARTS (See Figs. 2 and 3)

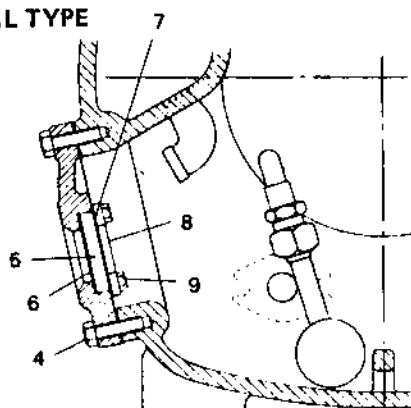
No. of Cylinders		3	6	6	9
Stroke		2-1/4"	1-7/8"	2-1/4"	2-1/4"
Item No.	Description	Part No.	Part No.	Part No.	Part No.
1	Valve, Relief, Internal	022-02097	022-02097	022-02097	022-02097
2	Crankshaft, Hermetic	065-14681	065-15456	065-14682	065-14683
3	Crankshaft, Open	365-02749-001	—	365-02446-001	365-03054-001
4	Bearing	029-09052	029-09052	029-09052	029-09052
5	Bearing	029-05210	029-05210	029-05210	029-05210
6	Collar, Thrust	029-06183	029-06183	029-06183	029-06183
7	Pin (Roll Pin) (2 Required)	029-05395	029-05395	029-05395	029-05395
8	Gasket, Capacity Control Valve	065-03233	065-03233	065-03233	065-03233
9	Gasket, Top Head	070-07437	070-06899	070-06899	070-07436
10	Screw, Cap, Top Head 7/16" x 3"	021-09576	021-09576	021-09576	029-09576
	No. Required	24	36	36	48
11	Screw, Cap, Top Head 7/16" x 3-5/8" (6 Required)	021-09577	021-09577	021-09577	021-09577
12	Piston, Complete (Consists of items 13, 14, 15, 16, 17)	365-24141	365-24141	365-24141	365-24141
13	Pin, Piston	029-13884	029-13884	029-13884	029-13884
14	Piston, Bare	065-23812	065-23812	065-23812	065-23812
15	Ring, Piston, Ventilated	029-06182	029-06182	029-06182	029-06182
16	Ring, Piston, Plain	029-03525	029-03525	029-03525	029-03525
17	Ring, Retaining (2 Required per Piston)	029-13764	029-13764	029-13764	029-13764
18	Connecting Rod	365-00374	365-00374	365-00374	365-00374
19	Bolts, Connecting Rod	021-24373	021-24373	021-24373	021-24373
20	Nuts, Hex Self Locking	021-09610	021-09610	021-09610	021-09610
21	Washer	021-01262	021-01262	021-01262	021-01262
22	Oil Pump Assembly, Complete	026-20437	026-20437	026-20437	026-20437
23	Gasket, Oil Pump Cover	070-07166	070-07166	070-07166	070-07166
24	Screw, Cap, Oil Pump Cover (5 Required)	021-01433	021-01433	021-01433	021-01433
25	Seal Cap, Oil Pressure Relief Valve	065-06394	065-06394	065-06394	065-06394
26	Gasket, Seal Cap Oil Relief Valve	065-21657	065-21657	065-21657	065-21657
27	Spring, Oil Pressure Relief Valve	029-06143	029-06143	029-06143	029-06143
28	Plunger, Oil Pressure Relief Valve	065-01331	065-01331	065-01331	065-01331
29	Bearing Head Assembly, Complete with bearing and pressure regulating valve				
	Hermetic	365-15301	365-15301	365-15301	365-15301
	Open	365-15300	365-15300	365-15300	365-15300
31	Gasket, Bearing Head (.015" Thick)	070-07379	070-07379	070-07379	070-07379
32	Screw, Cap Bearing Head (10 Required)	021-01538	021-01538	021-01538	021-01538
33	Valve, Oil Charging	022-01582	022-01582	022-01582	022-01582
34	Ring, Packing, O-Ring	028-03856	028-03855	028-03855	028-03855
35	Gasket, Flat	065-18098	065-18099	065-18099	065-08099
36	Screw, Cap 3/8" x 1-3/8"	021-01495	021-01495	021-01495	021-01495
37	Screw, Cap 3/8" x 1-1/2"	021-01497	021-01497	021-01497	021-01497
38	Screw, Crankshaft (Hermetic)	9/16" x 1-3/4"	021-01606	021-01606	—
		9/16" x 2-1/4"	—	021-13176	021-13176
		9/16" x 2-1/2"	021-11114	021-11114	—
		9/16" x 3"	—	021-02756	021-02756
		9/16" x 3-1/2"	—	—	021-11115
		9/16" x 4-1/4"	—	—	021-13178
39	Screw, Crankshaft (Open)	9/16" x 1-1/2"	021-01605	021-01605	021-01605
40	Lock Washer	021-05294	021-05294	021-05294	021-05294
41	Coupling Washer, Shaft (Hermetic)	365-14875	365-14875	365-14875	365-14875
42	Coupling Washer, Shaft (Open)	365-00368	—	365-00368	365-00368
43	Roll Pin, Coupling Washer	029-04545	029-04545	029-04545	029-04545
44	Valve, Suction Stop	022-01152	022-01394	022-01394	022-01394
45	Suction Strainer Screen (Hermetic)	026-10426	026-10425	026-10425	026-10425
46	Gasket, Suction Stop Valve to Strainer Screen (Hermetic)	028-00540	028-00864	028-00864	028-00864
47	Gasket, Strainer to Motor Housing Cover (Hermetic)	028-00540	028-00540	028-00540	028-00540
48	Gasket, Suction Valve to Flange (Hermetic)	028-00538	028-03155	028-03155	028-03155
49	Gasket, Suction Stop Valve to Manifold (Open)	028-00540	—	028-00864	028-00864
50	Gasket, Manifold to Housing (Open)	070-09202	—	070-07337	070-07337
51	Valve, Discharge Stop	022-01359	022-01393	022-01393	022-01393

*No Longer Available

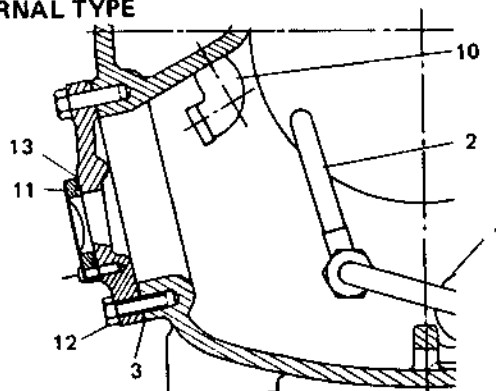
TABLE 2 (Cont'd.) — HERMETIC AND OPEN COMPRESSOR PARTS (See Figs. 2 and 3)

No. of Cylinders		3	6	6	9
Stroke		2-1/4"	1-7/8"	2-1/4"	2-1/4"
Item No.	Description	Part No.	Part No.	Part No.	Part No.
52	Manifold, Discharge (Hermetic)	365-23720	365-23721	365-23721	365-23721
53	Manifold, Discharge (Open)	365-23698	---	365-23699	365-23699
54	Gasket, Discharge Manifold to Top Heads	070-07354	070-07354	070-07354	070-07354
55	Gasket, Discharge Valve to Manifold	070-09824	028-00864	028-00864	028-00864
56	Spacer, End (Hermetic)	---	065-14694	065-14694	065-14694
57	Heater, 240 Watt (Hermetic) 120 Volt	025-10463	---	---	---
58	Heater, 350 Watt (Hermetic) 120 Volt	---	025-10462	025-10462	025-10462
59	Gasket, Discharge Valve to Flange	028-00771	028-03155	028-03155	028-03155
60	Screw, Cap, Terminal Block	021-01442	021-01442	021-01442	021-01442
61	Box, Terminal (Hermetic)	365-14707	365-15358	365-15358	365-15358
62	Cover, Terminal Box (Hermetic)	065-14704	065-14704	065-14704	065-14704
63	Screw, Machine, Terminal Box (Hermetic)	021-01715	021-01715	021-01715	021-01715
64	Plug, Stator Locking (Hermetic)	065-19003	065-19003	065-19003	065-19003
65	Gasket (Hermetic)	065-19004	065-19004	065-19004	065-19004
66	Head, Cylinder	065-02750	065-02538	065-02538	065-03029
67	Screen, Suction Strainer (Open)	029-05351	---	029-05351	029-05351
68	Gasket, Suction Strainer (Open)	070-07381	---	070-07381	070-07381
MISCELLANEOUS PARTS					
Gasket, Replacement Set, Complete (Hermetic)		365-16116	365-16117	365-16117	365-16118
Gasket, Replacement Set, Complete (Open)		365-16113	---	365-16114	365-16115
Mandrel, For Removing and Installing Stators		365-14100	365-14100	365-14100	365-14100

INTERNAL TYPE



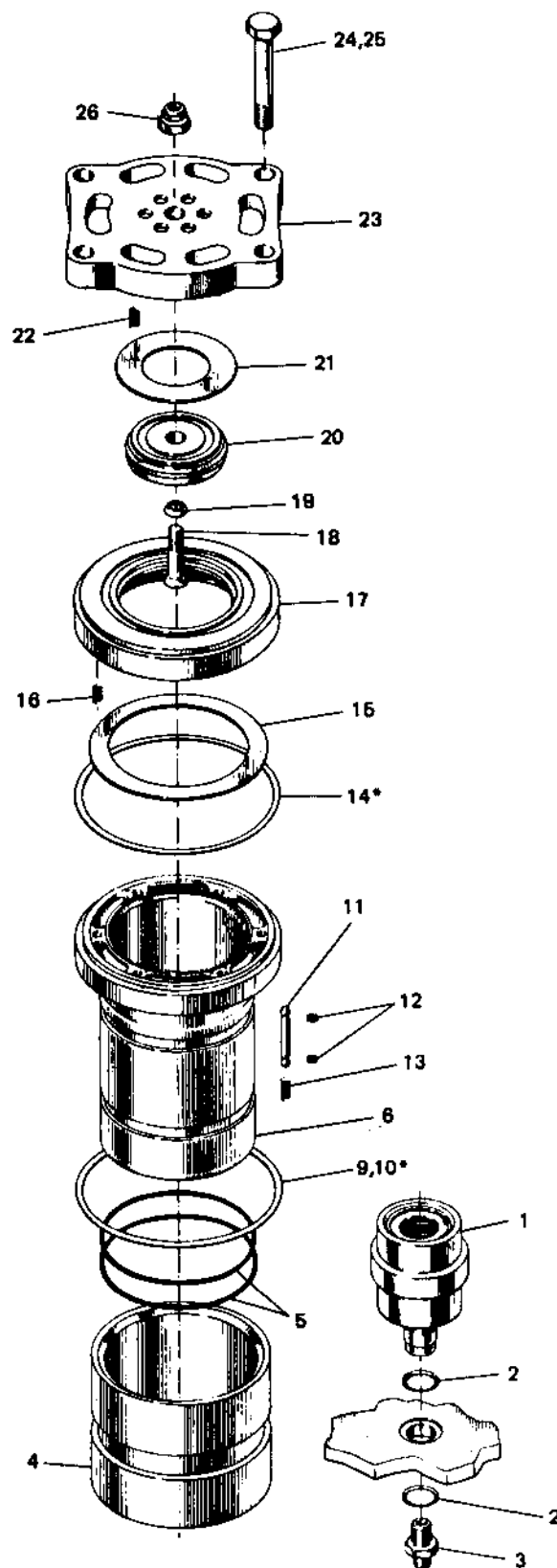
EXTERNAL TYPE



No. of Cylinders		3 & 6 Cyl.	9 Cyl.
Item No.	Description	Part No.	Part No.
1	Strainer, Oil	365-17308	365-17308
2	Connection, Housing to Strainer	365-15477	365-15477
3	Gasket, Handhole Cover	070-06898	070-07509
4	Screw, Cap, Handhole Cover	021-01483	021-01483
	No. Required	10 per cover	14 per cover
5	Glass, Oil Sight	026-02634	026-02634
6	Gasket, Oil Sight Glass, Outside	070-02399	070-02399
7	Gasket, Oil Sight Glass, Inside	070-06905	070-06905
8	Support, Sight Glass	065-02572	065-02572
9	Screw, Cap, Oil Sight Glass (4 Req'd.)	021-01379	021-01379
10	Elbow, Oil Return	023-01688	023-01688
11	Glass, Oil Sight	026-10797	026-10797
12	Screw, Cap	021-01372	021-01372
13	Gasket, O-Ring	028-06791	028-06791

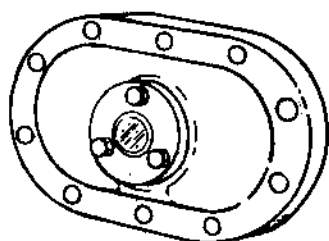
FIG. 4 — SIGHT GLASS AND OIL STRAINER — HERMETIC AND OPEN COMPRESSOR

Stroke		2-1/4"	1-7/8"
Item No.	Description	Part No.	Part No.
1	Power Unit Unloader	365-02995	365-02995
2	Gasket, Power Unit	070-04801	070-04801
3	Union, Power Unit	023-05839	023-05839
4	Sleeve, Unloader	065-00831	065-15457
5	Spring, Garter	029-04379	029-04379
6	Sleeve, Cylinder, Bare	065-02443	065-15458
7	Cylinder with Valves (Assembly) Consisting of following items: 8, 15, 16, 17, 18, 19, 20, 21, 22, 23 & 26. Note: This Assembly for Non-Unloading Type Cylinders.	365-02987	365-15469
8	Cylinder with Valves and Lift Pins (Assembly) Consisting of following items: 5, 11, 12, 13 & complete item 7. Note: This Assembly for Unloading Type Cylinder.	365-02988	365-15468
9	Gasket, Cylinder Sleeve .005" Thick	070-07377	070-07377
10	Gasket, Cylinder Sleeve .010" Thick	070-07378	070-07378
11	Pin, Lift (6 Req'd. per Cyl.)	029-04860	029-04860
12	Ring, Retaining (12 Req'd. per Cyl.)	029-04504	029-04504
13	Spring, Lift Pins (6 Req'd. per Cyl.)	029-04499	029-04499
14	Gasket, Suction Valve (Spacer - .010")	070-07378	070-07378
15	Valve, Suction	065-24831	065-24831
16	Spring, Suction	029-15292	029-15292
17	Plate, Discharge Valve	065-24601	065-24601
18	Screw, Discharge Valve	021-01068	021-01068
19	Gasket, Beveled	028-00574	028-00574
20	Plate, Inner Discharge Valve	065-03031	065-03031
21	Valve, Discharge	065-24832	065-24832
22	Spring, Discharge Valve (6 Req'd. per Cyl.)	029-15292	029-15292
23	Cage, Discharge Valve	065-24600	065-24600
24	Screw, Cap, 3/8" x 2" (4 Req'd. per Cyl.)	021-01510	---
25	Screw, Cap, 3/8" x 1-3/4" (4 Req'd. per Cyl.)	---	021 01505
26	Nut, Self Locking	021-09610	021-09610

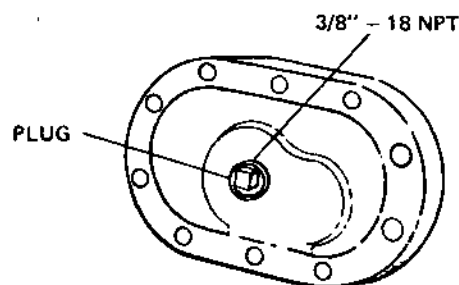


*See DESIGN HISTORY, page 11.

FIG. 5 — EXPLODED VIEW — CYLINDER SLEEVE AND VALVE ASSEMBLY



STYLE A (With Sight Glass)

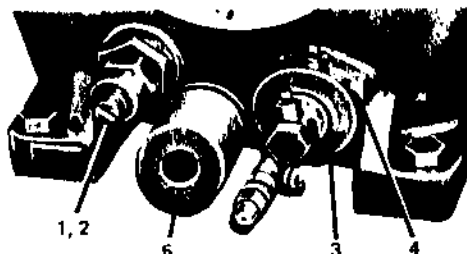


STYLE B (With 3/8" Pipe Tap)

No. of Cylinders	Style A	Style B	
		Cover	Plug
3	365-02996	065-03077	023-04298
6	365-02996	065-03077	023-04298
9	365-03060	065-03078	023-04298

NOTE: For cover used with crankcase float, see Fig. 10.

FIG. 6 — HAND HOLE COVERS

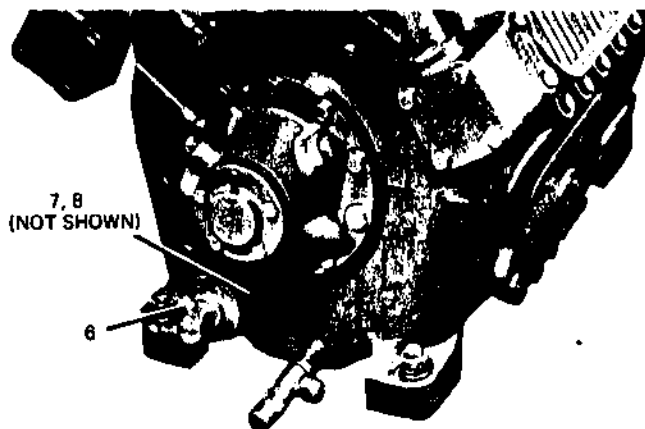


PREVIOUS DESIGN

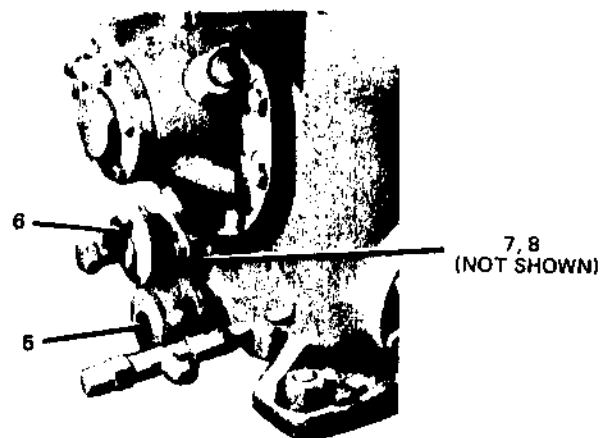
Stroke		2-1/4"	1-7/8"
Item No.	Description	Part No.	Part No.
1	Valve, Capacity Control* (Pressure Actuated)	365-22150	365-22150
2	Oil Pick-Up Line	065-16428	065-16428
3	Valve, Capacity Control, Regulating	025-11046	025-11046
4	Screw, Hex Socket Hd, 5/16" x 1"	021-01435	021-01435
5	Heater, 150 Watt, 120 Volt	025-09423	---
	240 Volt	025-12272	---
	Heater, 225 Watt, 120 Volt	---	025-18970
	240 Volt	---	025-18971
6	Valve, Capacity Control (Pressure Actuated)	025-09980	025-09980
	Valve, Capacity Control (Temperature Actuated) 33°F - 55°F	025-09981	025-09981
	0°F - 32°F	025-14283	025-14283
7	Control, Capacity Internal	365-13975-002	365-13975-002
8	Ring, Retainer	029-08659	029-08659

*Also requires items 2 & 6

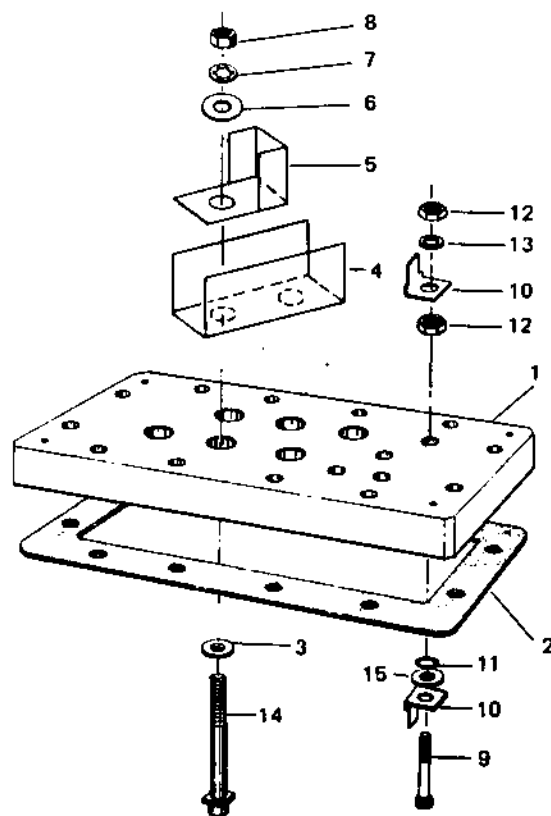
FIG. 7 — CAPACITY CONTROL PARTS (SEE DESIGN HISTORY)



PRESENT DESIGN — HERMETIC

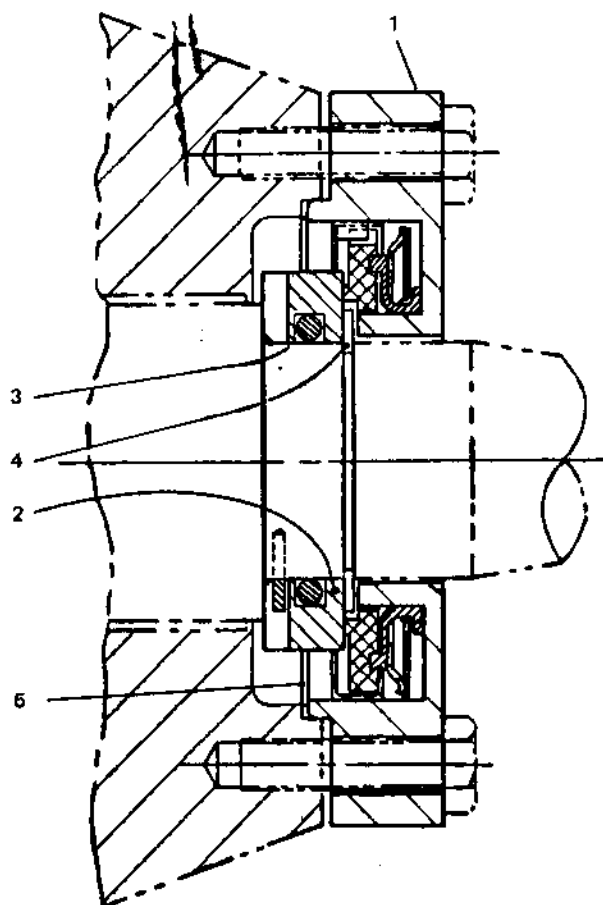


PRESENT DESIGN — OPEN



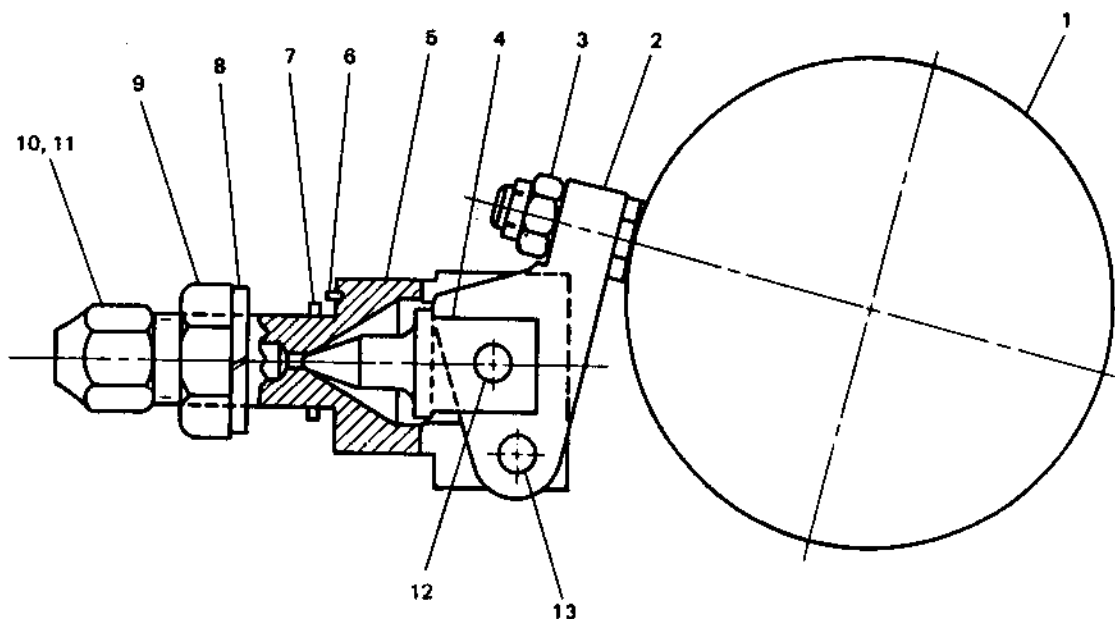
Item No.	Description	Part No.
1	Block, Terminal (Phenolic)	025-18426
2	Gasket, Terminal Block	070-15282
3	Gasket, Terminal Bolt	064-36152
4	Spacer, Insulating	065-23627
5	Spacer, Insulating	065-23626
6	Washer, Flat	021-05165
7	Lockwasher, Spring	021-08276
8	Nut, Hex	021-08581
9	Screw, Overload Protector	021-14619
10	Terminal	025-18850
11	Seal "O" Ring	028-09347
12	Nut, Hex	021-09991
13	Lockwasher	021-01133
14	Terminal Bolt, Motor	021-14493-001
15	Washer, Plain 3/16 I.D.	021-01240

FIG. 8 — MOTOR TERMINAL BLOCK (HERMETIC COMPRESSORS ONLY)



Item No.	Description	Part No.
	Shaft Seal, Complete	365-24327
1	Seal, Shaft	029-13635
2	Collar	065-09573
3	Seal, "O"-Ring	028-09306
4	Ring, Retaining	029-07100
5	Gasket	070-03357

FIG. 9 — CROSS SECTION — BRUMMER REPLACEMENT SHAFT SEAL (See DESIGN HISTORY, Page 11.)



CRANKCASE FLOAT*

Item No.	Description	Part No.
	Float (Less Handhole Cover)	364-45530
	Float (With Handhole Cover)	
	3 & 6 Cylinder	365-24824
	9 Cylinder	365-24826
1	Ball	022-00530
2	Lever, Float	068-04542
3	Nut, Self Locking	021-09610
4	Valve, Float	068-04545
5	Body, Valve	064-45531
6	Pin, Roll	029-08228
7	Gasket	028-03014
8	Lockwasher	021-05273
9	Nut, Hex Jam	021-08073
10	Bonnet, Flare	023-01025
11	Nut, Flare	021-05676
12	Pin, Valve	068-01584
13	Pin	065-02071
	Handhole Cover	
	3 & 6 Cylinder	065-24825
	9 Cylinder	065-24827

*NOTE: All crankcase float components listed are for use with steel handhole covers. Older floats used with cast iron handhole covers are no longer available. If parts are required for old style float, order complete float and handhole cover shown above. For handhole cover gasket, see Fig. 4.

FIG. 10 — CRANKCASE FLOAT VALVES FOR HERMETIC AND OPEN TYPE COMPRESSORS

DESIGN HISTORY

SHAFT SEAL

Shaft Seals on 2-5/8" open compressors fall basically into one of three categories:

1. Earliest design compressors (designated by AF or AFX model number prefix) were equipped with a shaft seal utilizing leaf type springs. The seal cover plate on these compressors had a rather flat dome on the outside.
2. Later design compressors (designated by BF or BFX model number prefix, or F32S, F62S and F92S) were equipped with a balanced type shaft seal. The seal cover plate on these compressors had a raised center on the outside.
3. Later design F32S, F62S, F92S and FS32, FS62 and FS92 compressors were equipped with a Brummer (bellows type) Shaft Seal. The cover plate on this type seal is perfectly flat on the outside.

Parts are no longer available for seals described in paragraph No. 1 and No. 2 above. If seal parts are required for these compressors the compressor should be converted to the Brummer type shaft seal. [See Form 180.15-N1 (Supl. 5)] The Brummer seal and part numbers are shown in Fig. 9, page 9.

CAPACITY CONTROL

The original design of the capacity control mechanism included a capacity control valve and a separate capacity control regulating valve. These separate valves have been combined on the present design. (See Fig. 7.) If compressor is equipped with the separate valves, refer to Fig. 7 and order parts from illustration marked Previous Design.

NOTE: If compressor is equipped with the separate valves and the hand operating stem of the capacity control valve does not have an indicator collar, order valve Part No. 365-22150.

If the compressor is equipped with the one-piece valve, refer to Fig. 7 and order parts from illustration marked Previous Design.

CYLINDER SLEEVE GASKETS

Items 9, 10 and 14 shown in Fig. 5 are not used with present design cylinder sleeves and valve plates. They are available only for use with old design cylinder sleeves and valve plates.

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