



Millennium™
ROTARY SCREW LIQUID CHILLERS

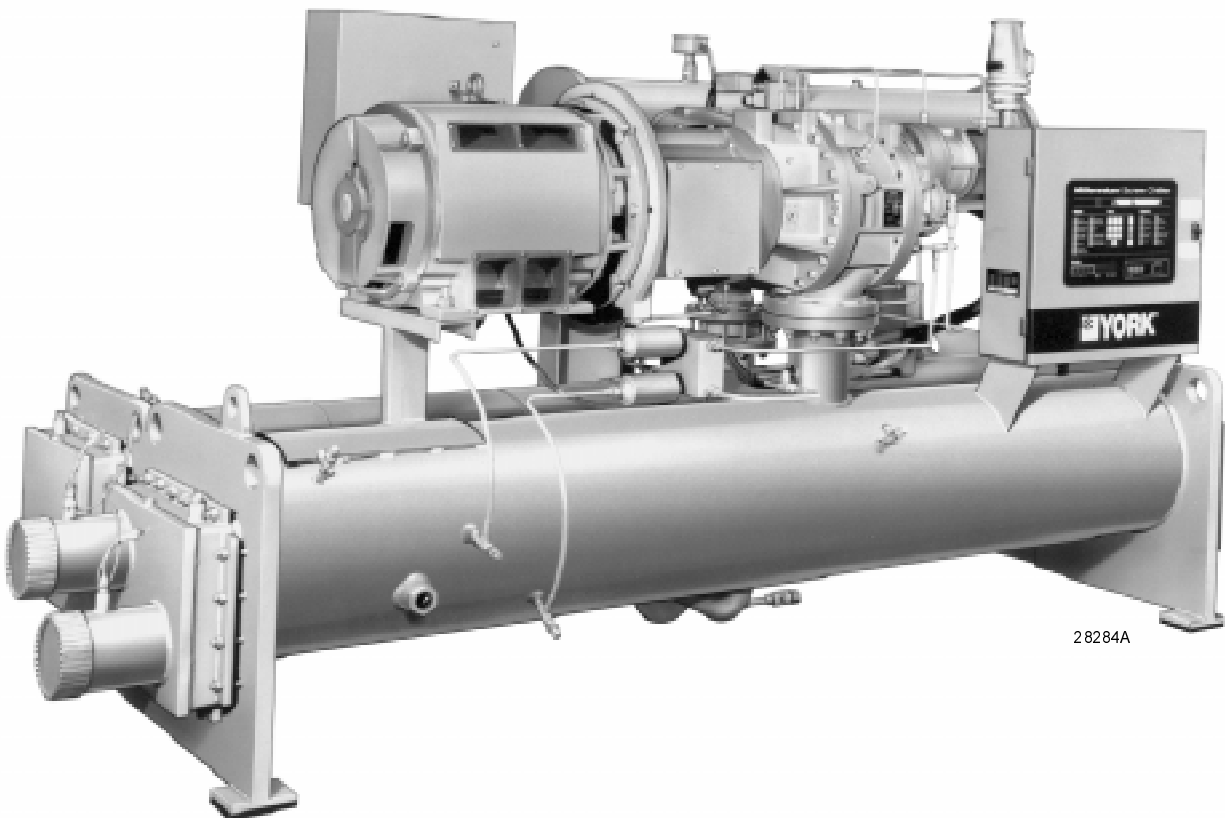
RENEWAL PARTS

Supersedes: Nothing

FORM 160.47-RP4 (198)

UNIT COMPONENTS

**MODEL YS BA BA S0 THRU YS FC FB S5
(STYLE C)
150 THRU 650 TONS**

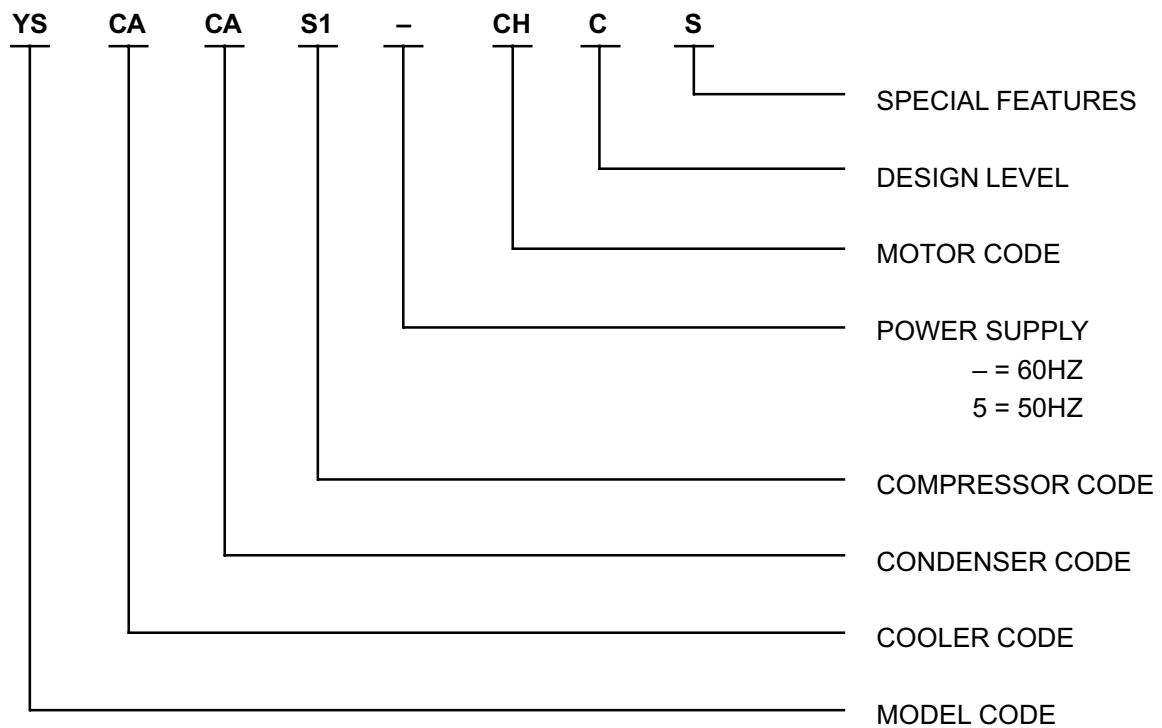


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NOMENCLATURE



AVAILABLE COMPRESSOR/SHELL/MOTOR COMBINATIONS

COMPRESSOR CODE	COOLER SHELL CODE	CONDENSER SHELL CODE	MOTOR CODE			
			R-22		R-134a	
			60 HZ	50HZ	60 HZ	50 HZ
S0	BA,BB	BA,BB,CA,CB	CF,CG,CH	5CC,5CD	CF,CG,CH	5CC,5CD
	CA,CB	BA,BB,CA,CB				
S1	BA,BB	BA,BB,CA,CB	CF,CG,CH,CJ,CK	5CC,5CD,5CE,5CF	CF,CG,CH,CJ,CK	5CC,5CD,5CE,5CF
	CA,CB	BA,BB,CA,CB				
S2	CA,CB	CA,CB,DA,DB	CG,CH,CJ, CK,CL,CM	5CC,5CD,5CE, 5CF,5CG,5CH	CF,CG,CH, CJ,CK,CL,CM	5CC,5CD,5CE, 5CF,5CG,5CH
	DA,DB,DC	CA,CB,DA,DB				
S3	DA,DB,DC	CA,CB,DA,DB	CJ,CK,CL,CM, CN,CP,CR	5CE,5CF,5CG, 5CH,5CI,5CJ,5CK	CG,CH,CJ,CK, CL,CM,CN,CP,CR	5CC,5CD,5CE,5CF, 5CG,5CH,5CI,5CJ,5CK
S4	EA,EB,EC	EA,EB,FA,FB	CK,CL,CM,CN, CP,CR,CS,CT,CU, CV,CW,CX,CY,CZ	5CF,5CG,5CH,5CI, 5CJ,5CK,5CL,5CM,5CN, 5CO,5CP,5CQ,5CR,5CS	CJ,CK,CL,CM,CN, CP,CR,CS,CT,CU, CV,CW,CX,CY,CZ	5CE,5CF,5CG,5CH,5CI, 5CJ,5CK,5CL,5CM,5CN, 5CO,5CP,5CQ,5CR,5CS
	FA,FB,FC	FA,FB				
S5	FA,FB,FC	FA,FB	CK,CL,CM,CN, CP,CR,CS,CT,CU, CV,CW,CX,CY,CZ	5CF,5CG,5CH,5CI, 5CJ,5CK,5CL,5CM,5CN, 5CO,5CP,5CQ,5CR,5CS	CK,CL,CM,CN, CP,CR,CS,CT,CU, CV,CW,CX,CY,CZ	5CF,5CG,5CH,5CI, 5CJ,5CK,5CL,5CM,5CN, 5CO,5CP,5CQ,5CR,5CS

UNIT COMPONENTS

ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PER UNIT	REFERENCE FIGURE
1	Valve, Butterfly S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	022-08874-000 022-08875-000 022-08876-000	1	2
2	Shim, Motor Mounting	066-87439-000	8	5
3		066-92388-000	4	
4		066-92389-000	4	
5	Gasket, Compressor Suction S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	028-13574-000 028-13574-000 028-13576-000	1	5
6	Gasket, Compressor Discharge S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	028-13573-000 028-13575-000 028-13575-000	1	3
7	Gasket, Butterfly Valve S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	028-13573-000 028-13575-000 028-13575-000	2	2
8	Filter, Suction*	026-32839-000	2	5
9	Cooler, Oil S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	026-33613-000 026-33613-000 026-32833-000	1	1
10	Filter, Oil (Complete) Includes Items 10A, 10B	026-32830-000	1	6
10A	Element, Oil Filter	026-32831-000	2	6
10B	Replacement "O"-Rings Kit, Oil Filter	026-34428-000	1	6
11	Eductor, Oil S0, S1 Compressors - R-22 R-134A S2, S3 Compressors - R-22 R-134A S4, S5 Compressors - R-22 R-134A	375-15231-000 375-17436-000 375-15231-000 375-17436-000 375-16331-000 375-17437-000	1	4
12	Valve, Solenoid S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	025-32916-000 025-32916-000 Not Required	1 1 —	2
13	Valve, Angle Stop	022-09195-000	1	1
14	Valve, Angle Stop	022-09196-000	4	2, 5, 6
15	Valve, Angle Stop	022-09197-000	3	1, 6, 7
16	Valve, Angle Stop	022-09198-000	4	3
17	Valve, Angle Stop S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	022-09198-000 022-09198-000 022-09199-000	1	1

* Special Primore Rotolock Fitting

TABLE CONTINUED ON PAGE 6

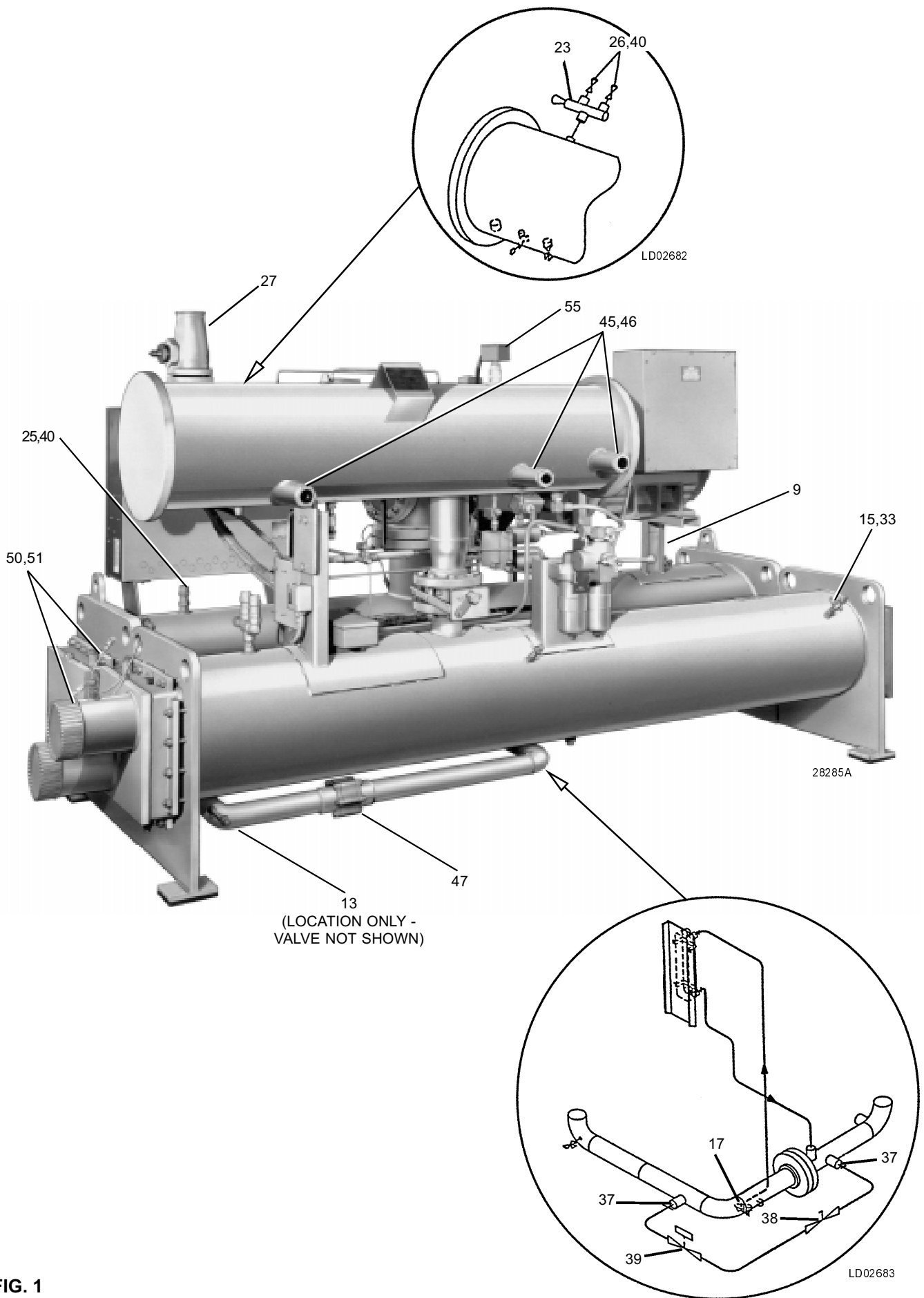


FIG. 1

UNIT COMPONENTS

ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PER UNIT	REFERENCE FIGURE
18	Valve, Angle Stop	022-09199-000	4	4, 5, 7
19	Solenoid Valve, Subplate	029-21399-000	1	3
20	Valve, Angle Stop S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	Not Required 022-09198-000 022-09198-000	— 1 1	2
21	Valve, Angle Stop S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	022-09199-000 022-09199-000 022-09514-000	2	2, 7
22	Valve, Three-Way Stop	022-09515-000	1	2
23	Valve, Three-Way Stop S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	Not Required 022-09515-000 022-09515-000	— 1 1	1
24	Valve, Relief S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	022-09501-000 022-09501-000 022-09505-000	2	2
25	Valve, Relief S0, S1 Compressors S2 Compressors - "C" Cooler S2, S3 Compressors - "D" Cooler S4, S5 Compressors	022-09501-000 022-09501-000 022-09505-000 022-09505-000	1	1
26	Valve, Relief S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	Not Required 022-09501-000 022-09505-000	— 2 2	1
27	Valve, Relief S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	022-07893-040 022-07893-040 Not Required	1 1 —	1
28	Valve, Ball	022-08747-000	1	4
29	Valve, Bleed	022-09574-000	2	6
30	Seal, "O"-Ring	028-12961-001	2	6
31	Bottle, Oil	028-10579-000	1	6
32	Filter Drier*	026-32841-000	1	3
33	Seal, Bonnet	023-01026-000	3	1, 6, 7
34	Seal, Bonnet	075-01611-000	1	3
35	Pad, Isolator S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	075-01637-000 075-01637-000 075-03658-000	2	3
36	Seal, Teflon Fiber	028-12709-000	6	5
37	Seal, "O"-Ring	028-12961-016	2	1

* Special Primore Rotalock Fitting

TABLE CONTINUED ON PAGE 8

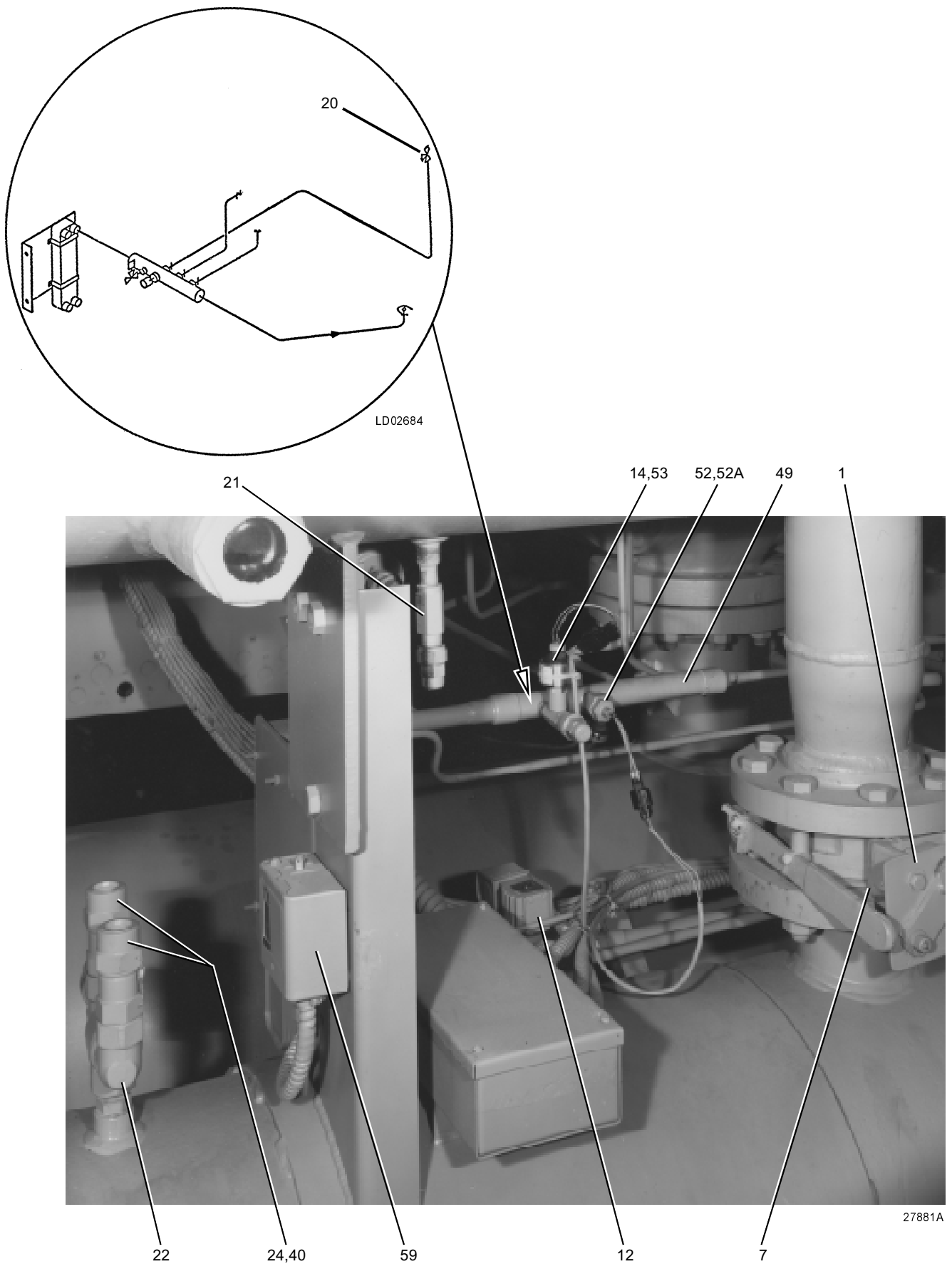


FIG. 2

UNIT COMPONENTS

ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PER UNIT	REFERENCE FIGURE
38	Valve, Ball	022-09565-000	1	1
39	Valve, Solenoid	025-32916-000	1	1
40	Seal, "O"-Ring	028-12961-005		1, 2
	S0, S1 Compressors		3	
	S2, S3 Compressors		5	
	S4, S5 Compressors		5	
41	Rupture Disk, 2" S4, S5 Compressors	026-32292-000	1	7, 8
42	Safety head, 2" S4, S5 Compressors	026-32293-000	1	7, 8
43	Gasket, Round, Rupture Disk S4, S5 Compressors	028-10386-028	3	7, 8
44	Valve, Ball	022-09502-000	1	7
45	Sight Glass	023-17197-000	4	1, 5
46	Seal, "O"-Ring	028-12961-009	4	1, 5
47	Valve, Ball	022-08744-000	1	1
48	Gasket, Round, Orifice Plate	028-13572-000	2	7
49	Oil Manifold S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	375-28716-001 375-28716-001 375-28716-001	1	2

SYSTEM CONTROL COMPONENTS

ITEM NUMBER	DESCRIPTION	PART NUMBER	QUANTITY PER UNIT	REFERENCE FIGURE
50	Well, Sensor (Clr and Cond Water)	026-32328-000	4	1, 7
51	Sensor, Temperature (Clr and Cond Water)	025-29964-000	4	1, 7
52	Sensor, Temperature	025-31301-000	2	2, 9
52A	Seal, "O"-Ring	028-12961-004	2	2, 9
53	Transducer, Pressure	025-28678-006	3	2, 6
54	Transducer, Pressure R-22 R-134A	025-28678-007 025-28678-008	1 1	5
55	Float Switch, Oil Level S0, S1 Compressors S2, S3 Compressors S4, S5 Compressors	024-30439-001 024-30439-002 024-30439-003	1	1
56	Oil Heater (1HTR)	025-29119-000	1	3
57	Well, Thermostat (Oil Heater)	026-32840-000	1	3
58	Thermostat, Oil Heater	024-25509-000	1	3
59	Hi-Pressure Cutout	025-30970-000	1	2
60	Suppressor S0, S1 Compressors ¹ S2, S3 Compressors ¹ S4, S5 Compressors ²	031-00808-000	4 4 3	10
61	Valve, 4-Way Solenoid	025-30464-000	1	3

NOTES:

1. Used in Oil Line Solenoid Valve (1 SOL), Refrigerant Level Solenoid Valve (2 SOL) and Slide Valve Solenoid (2 Req'd).
2. Used in Refrigerant Level Solenoid Valve (2 SOL) and Slide Valve Solenoid (2 Req'd).

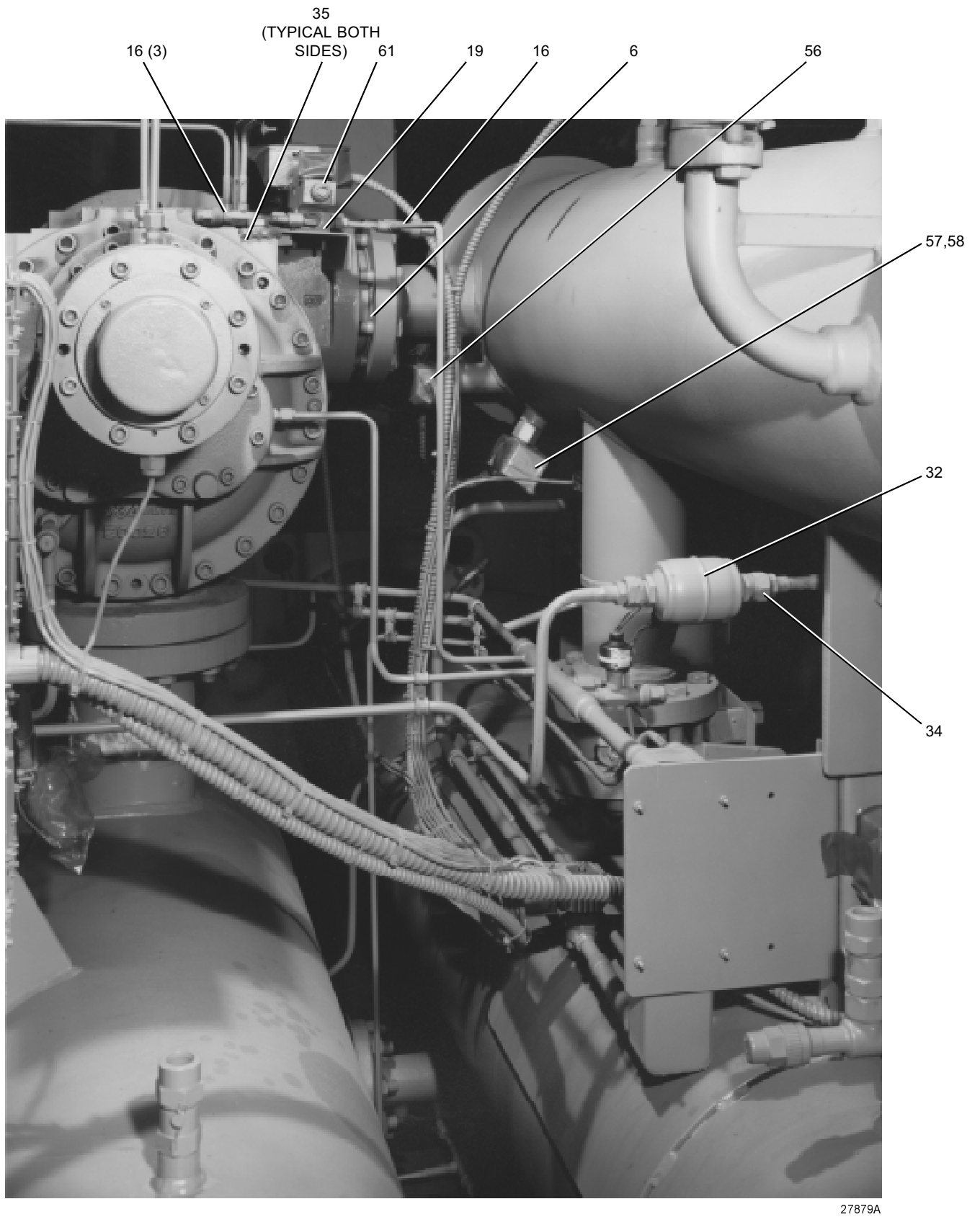
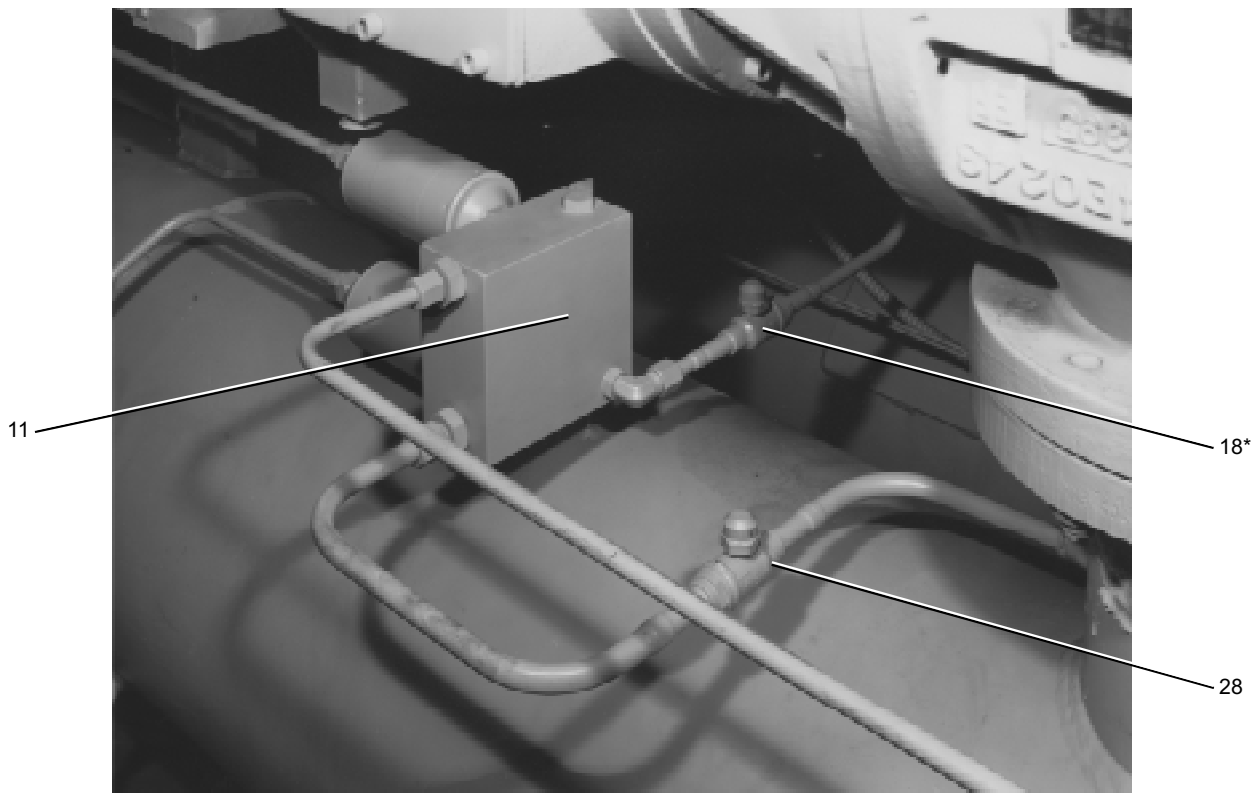


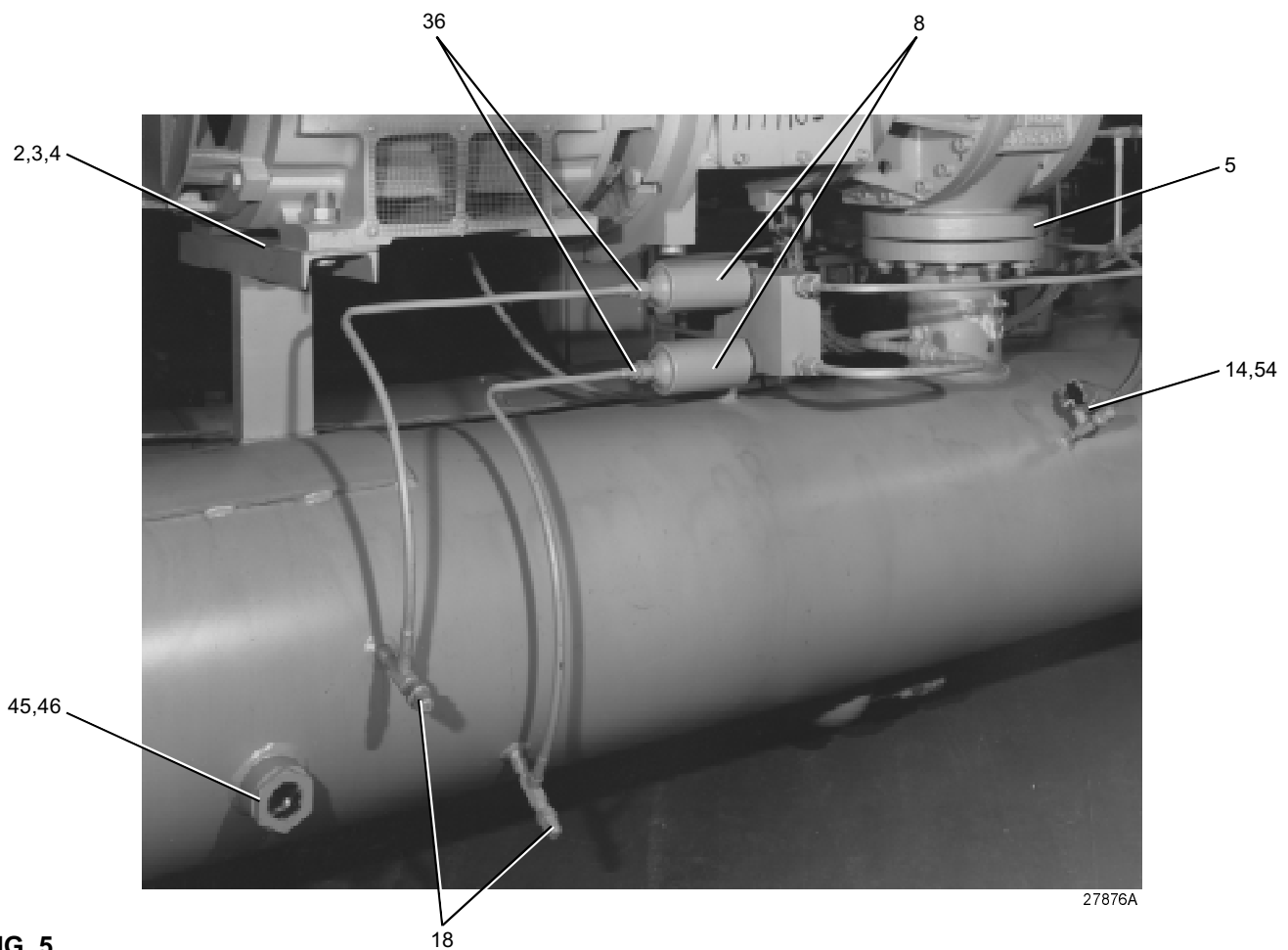
FIG. 3



27877A

* Angle stop valve in current design

FIG. 4



27876A

FIG. 5

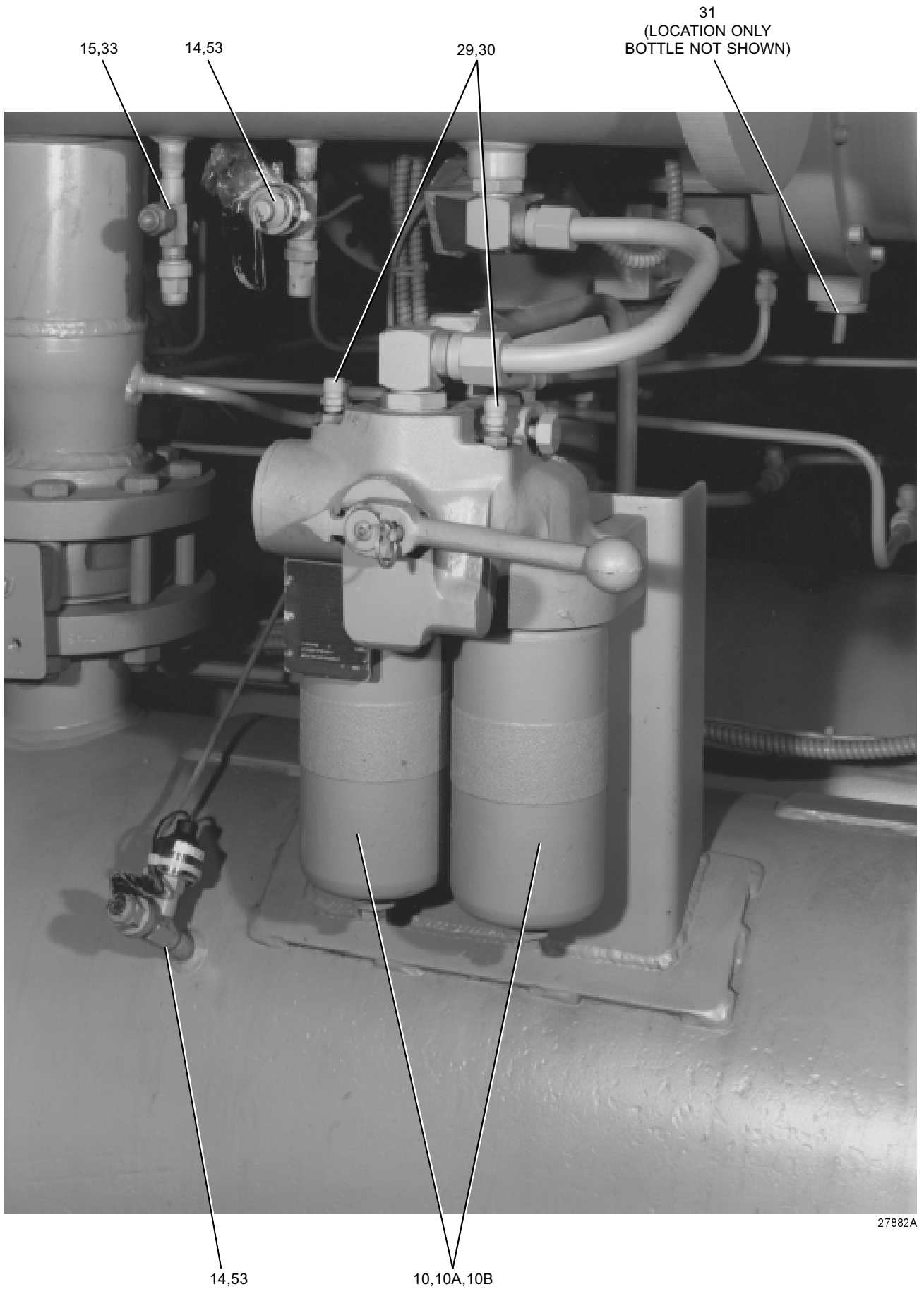
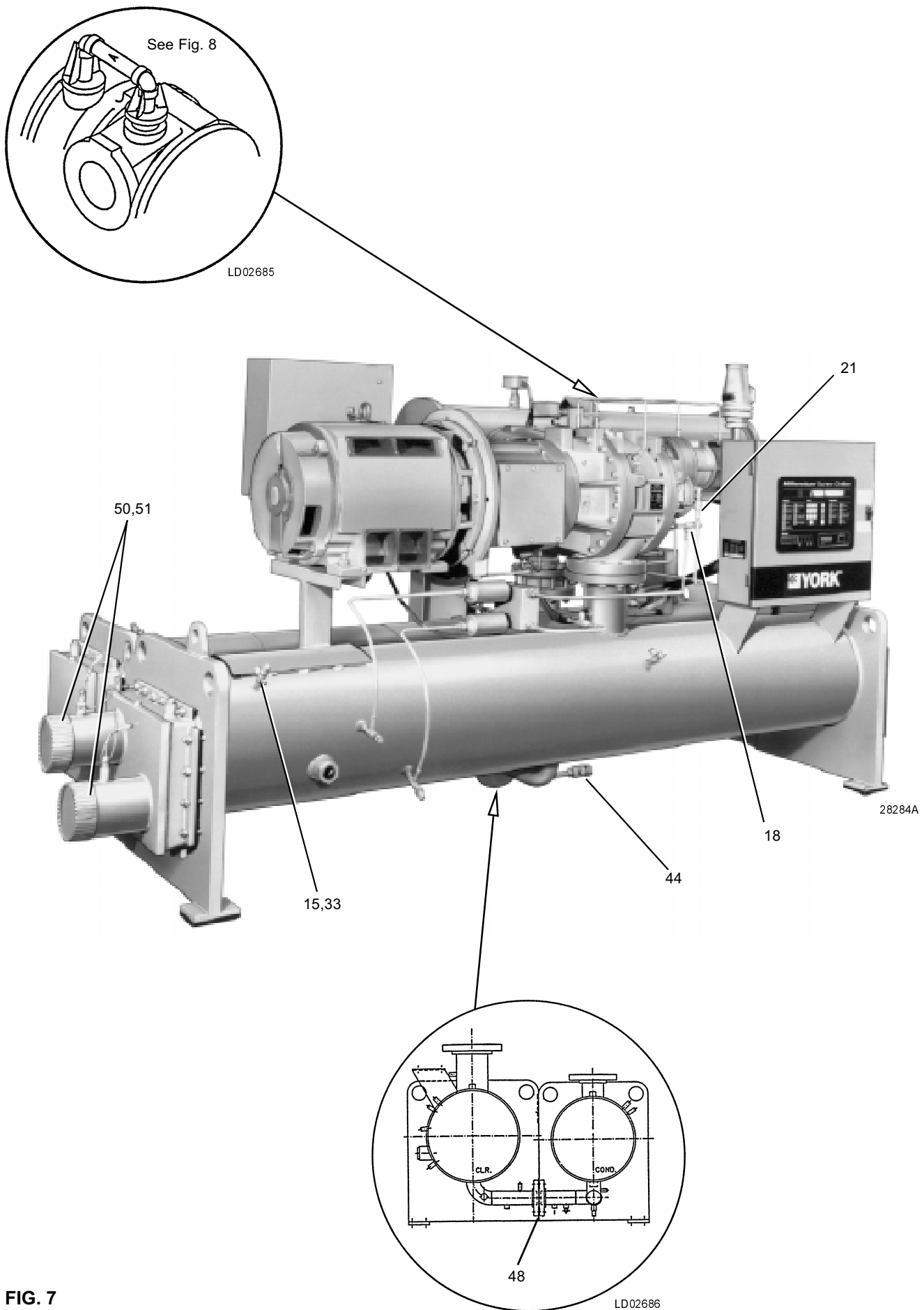
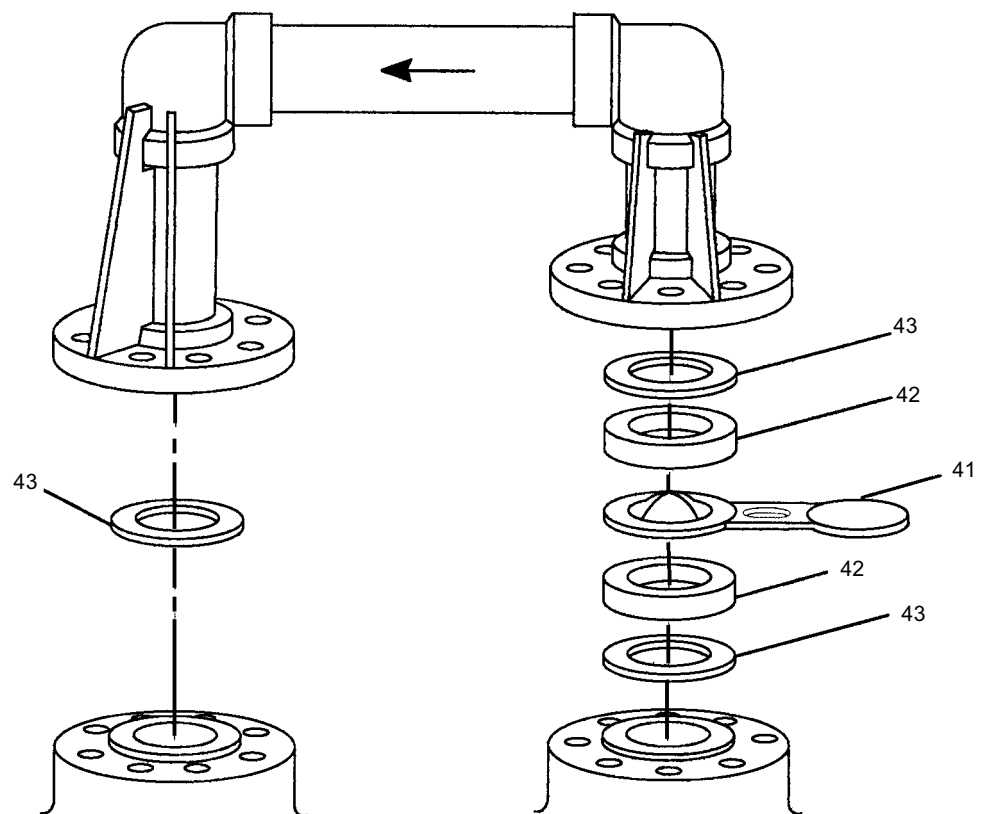


FIG. 6





LD02687

FIG. 8

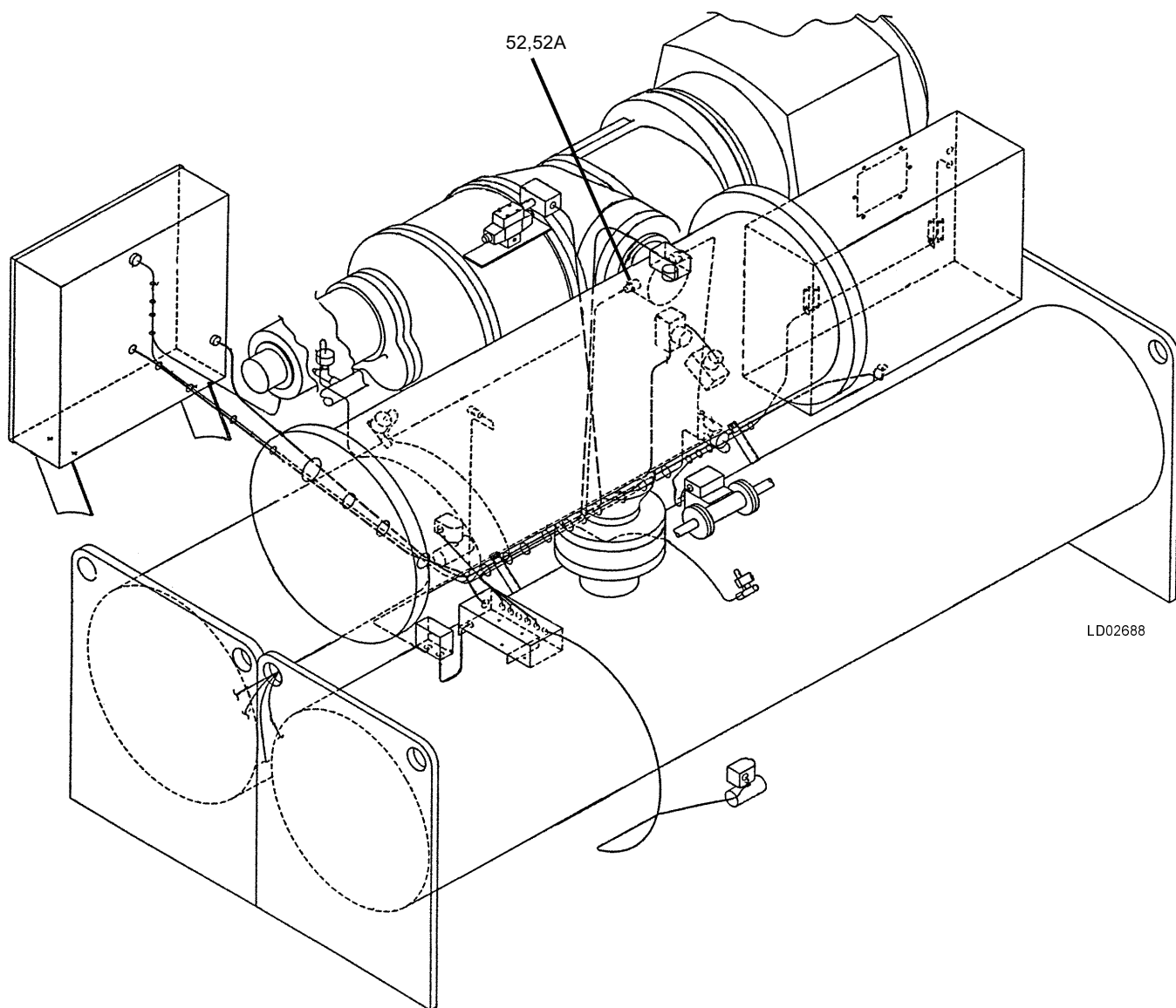


FIG. 9

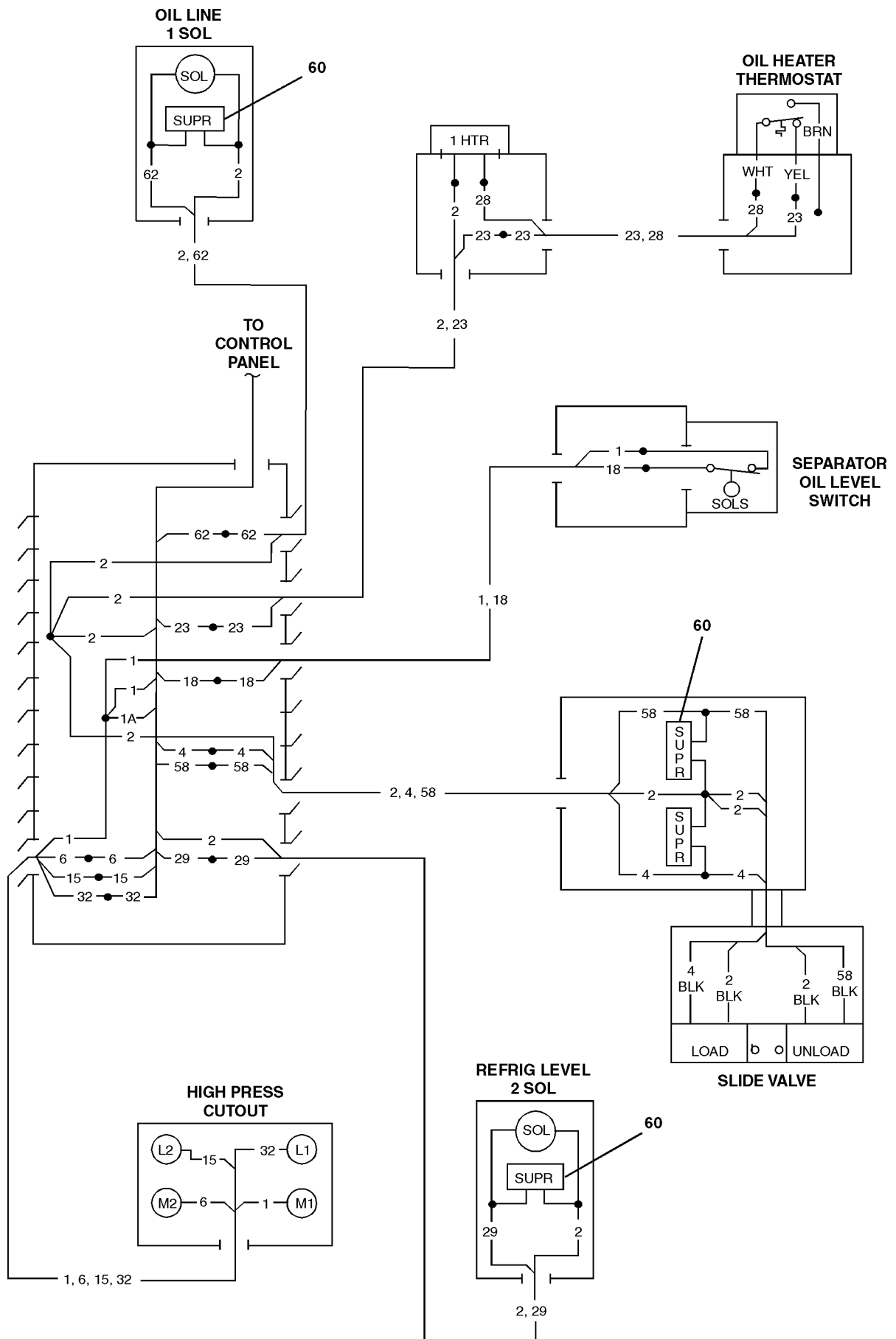


FIG. 10

LD02689

KIT CURRENT TRANSFORMER

FIELD INSTALLED ELECTRO-MECHANICAL STARTERS ONLY

MOTOR VOLTAGE	FLA	“CT” RATIO	PART NUMBER
			USE WITH FACTORY-MOUNTED MOTORS ONLY
200/600	65-111	200:1	366-82718-701
	112-224	350:1	366-82718-702
	225-829	700:1	366-82718-703
	830-1790	1400:1	366-82718-704
2300/4160	11-18	200:1	366-82718-705
	19-37	200:1	366-82718-705
	38-123	200:1	366-82718-705
	124-264	350:1	366-82718-706

TRANSFORMER ONLY

CT RATIO	PART NUMBER
200:1	025-21173-001
350:1	025-21173-002
700:1	025-21173-003
1400:1	025-21173-004

OIL SEPARATOR

COMPRESSOR SIZE	PART NUMBER
S0	375-15235-000
S1	375-15235-000
S2	375-15236-000
S3	375-15236-000
S4	375-16048-000
S5	375-16048-000

ORIFICE PLATE

CODE	PART NUMBER	CODE	PART NUMBER
C	075-00748-001	N	075-00748-011
D	075-00748-002	P	075-00748-012
E	075-00748-003	Q	075-00748-013
F	075-00748-004	R	075-00748-014
G	075-00748-005	S	075-00748-015
H	075-00748-006	T	075-00748-016
J	075-00748-007	U	075-00748-017
K	075-00748-008	V	075-00748-018
L	075-00748-009	W	075-00748-019
M	075-00748-010		

STRAINER, INLET CHILLED WATER (Compact Heads and Marine Water Boxes)

COOLER SHELL CODE	PASS	NOZZLE SIZE	PART NUMBER	
			COMPACT WATER BOX	MARINE WATER BOX
BA,BB	1	8	029-12949-000	029-12949-000
CA,CB	1	8 10	029-12949-000 —	— 029-12950-000
DA,DB,DC	1	12	029-12951-000	029-12951-000
BA,BB,CA,CB	2	6	029-12948-000	029-12948-000
DA,DB,DC	2	8	029-12949-000	029-12949-000
BA,BB	3	4	029-13286-000	029-13286-000
CA,CB,DA,DB,DC	3	6	029-12948-000	029-12948-000
EA,EB,EC	1	12	029-12951-000	029-12951-000
FA,FB,FC	1	12 14	— 029-14727-000	029-12951-000 —
EA,EB,EC	2	8	029-12949-000	029-12949-000
FA,FB,FC	2	10	029-12950-000	029-12950-000
EA,EB,EC	3	6	029-12948-000	029-12948-000
FA,FB,FC	3	8	029-12949-000	029-12949-000

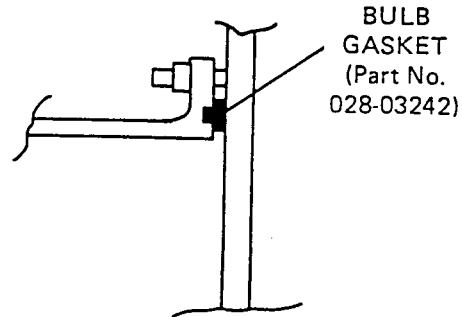
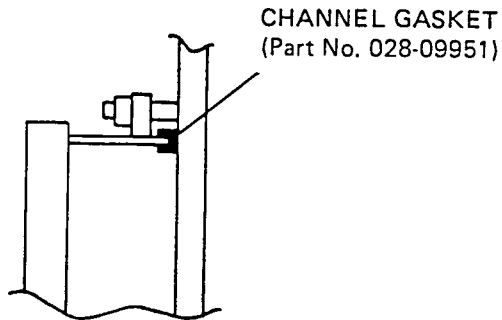
NEOPRENE VIBRATION ISOLATORS

SYSTEM OPERATING WEIGHT		PART NUMBER Includes Quantity of 4 Pads	PAD SIZE
KILOGRAMS	POUNDS		
Up to 7423	Up to 16365	028-10578-000	4-1/2" x 4-1/2"
7424 to 13107	16366 to 28835	028-10518-000	4-1/2" x 6"
13108 to 24332	28836 to 53530	028-10519-000	6" x 6"

SPRING ISOLATORS

SYSTEM OPERATING WEIGHT		PART NUMBER Includes Quantity of 4 Pads	QUANTITY
KILOGRAMS	POUNDS		
Up to 4453	Up to 6865	029-18479-001	4
3115 to 4453	6866 to 9818	029-18479-002	4
4454 to 5526	9819 to 12182	029-18479-003	4
5527 to 6927	12183 to 15272	029-18479-004	4
6928 to 8288	15273 to 18272	029-18480-001	4
8289 to 10391	18273 to 22909	029-18480-002	4
10392 to 11813	22910 to 26044	029-18480-003	4
11814 to 13126	26045 to 28938	029-18480-004	4
13127 to 14530	28939 to 32032	029-18480-005	4

WATER BOX GASKETS



LD02690

COOLER WITH STANDARD COMPACT WATER BOXES

SHELL CODE	1 PASS		2 PASS		3 PASS	
	GASKET PART NO.	FEET REQ'D	GASKET PART NO.	FEET REQ'D	GASKET PART NO.	FEET REQ'D
BA,BB	028-09951	12.0	028-09951	14.0	028-09951	14.0
CA,CB	028-09951	12.0	028-09951	14.0	028-09951	15.0
DA,DB,DC	028-09951	17.0	028-09951	20.0	028-09951	22.0
EA,EB,EC	028-03242	18.0	028-09951	21.0	028-09951	23.0
FA,FB,FC	028-03242	21.0	028-03242	21.0	028-03242	21.0
			028-09951	4.0	028-09951	3.5

COOLER WITH MARINE WATER BOXES

SHELL CODE	1 PASS		2 PASS		3 PASS	
	GASKET PART NO.	FEET REQ'D	GASKET PART NO.	FEET REQ'D	GASKET PART NO.	FEET REQ'D
BA,BB	028-03242	13.0	028-03242	13.0	028-03242	13.0
			028-09951	4.0	028-09951	3.0
CA,CB	028-03242	14.0	028-03242	14.0	028-03242	14.0
			028-09951	5.0	028-09951	4.0
DA,DB,DC	028-03242	18.0	028-03242	18.0	028-03242	18.0
			028-09951	6.0	028-09951	5.0
EA,EB,EC	028-03242	36.0	028-03242	24.0	028-03242	36.0
			028-09951	6.0	028-09951	10.0
FA,FB,FC	028-03242	44.0	028-03242	33.0	028-03242	44.0
			028-09951	13.0	028-09951	13.0

WATER BOX GASKETS

CONDENSER WITH STANDARD COMPACT WATER BOXES

SHELL CODE	1 PASS		2 PASS	
	GASKET PART NO.	FT. REQ'D	GASKET PART NO.	FT. REQ'D
BA,BB	028-09951	11.0	028-09951	12.0
CA,CB	028-09951	12.0	028-09951	14.0
DA,DB	028-09951	16.0	028-09951	18.0
EA,EB	028-09951	16.0	028-09951	18.0
FA,FB	028-03242	20.0	028-03242 028-09951	20.0 3.0

CONDENSER WITH MARINE WATER BOXES

SHELL CODE	1 PASS		2 PASS	
	GASKET PART NO.	FT. REQ'D	GASKET PART NO.	FT. REQ'D
BA,BB	028-03242	11.0	028-03242 028-09951	11.0 3.0
CA,CB	028-03242	14.0	028-03242 028-09951	14.0 3.0
DA,DB	028-03242	17.0	028-03242 028-09951	17.0 4.0
EA,EB	028-03242	17.0	028-03242 028-09951	17.0 4.0
FA,FB	028-03242	21.0	028-03242 028-09951	21.0 56.0

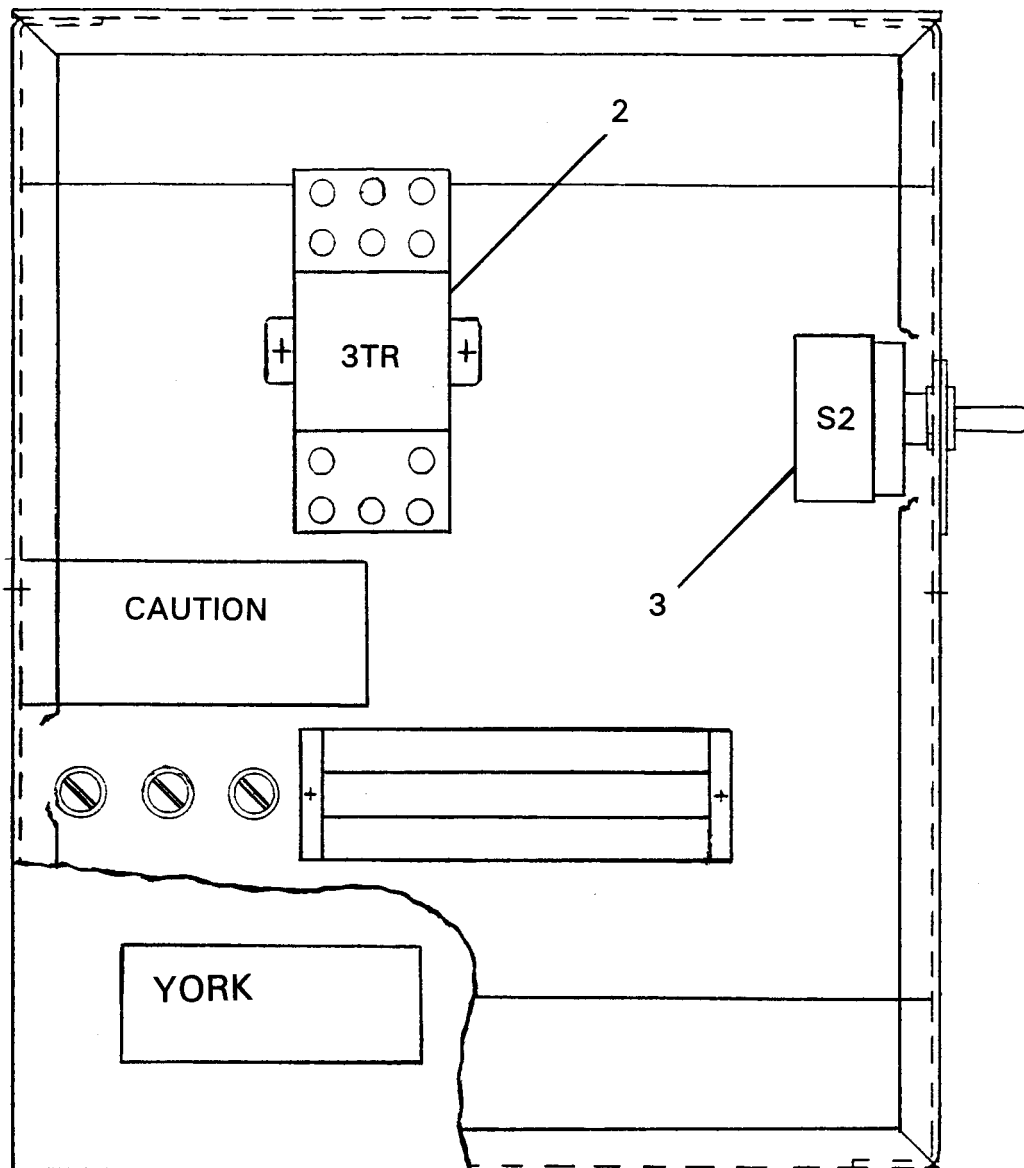
COOLER TUBES

SHELL CODE	SHELL ID	TUBE QUANTITY
PART NUMBER 007-07872-000		
BA	19	100
BB	19	134
CA	23	174
CB	23	228
DA	29	216
DB	29	307
DC	29	410
PART NUMBER 007-07879-000		
EA	31	217
EB	31	308
EC	31	410
FA	38	410
FB	38	547
FC	38	728

CONDENSER TUBES

SHELL CODE	SHELL ID	TUBE QUANTITY
PART NUMBER 007-08409-000		
BA	17-1/4	133
BB	17-1/4	169
CA	20-1/2	226
CB	20-1/2	292
DA	25	404
DB	25	528
PART NUMBER 007-08408-000		
EA	25	408
EB	25	532
FA	32-1/2	670
FB	32-1/2	902

MULTIPLE UNIT SEQUENCE KIT CONTROLS



LD02691

TWO UNITS

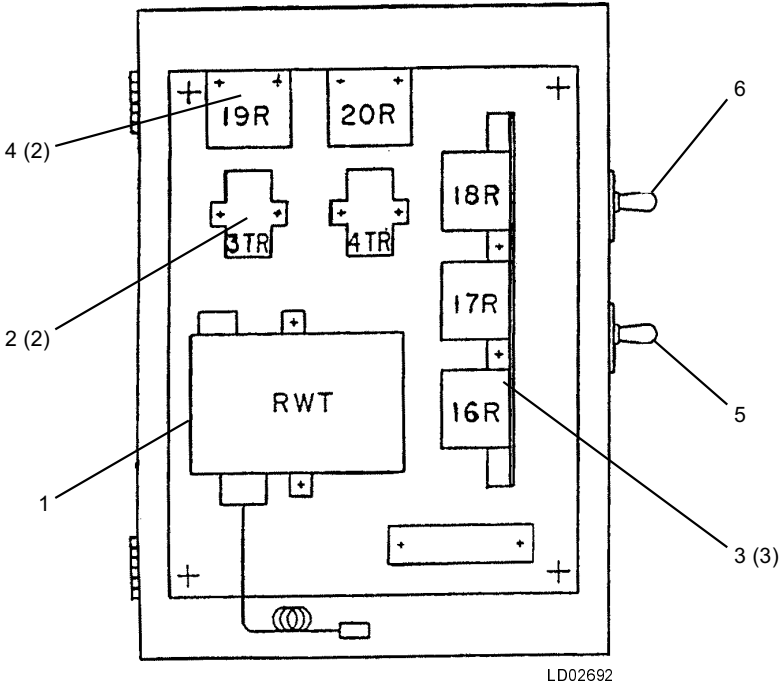
ITEM	DESCRIPTION	QUANTITY	PART NUMBER
1 ¹	Controller, RWT	1	025-15154-000
2	Relay, Time Delay	1	024-13711-000
3	Switch, Toggle	1	024-14057-000

NOTE:

1. Not Shown. Remote Mounted.

MULTIPLE UNIT SEQUENCE KIT CONTROLS

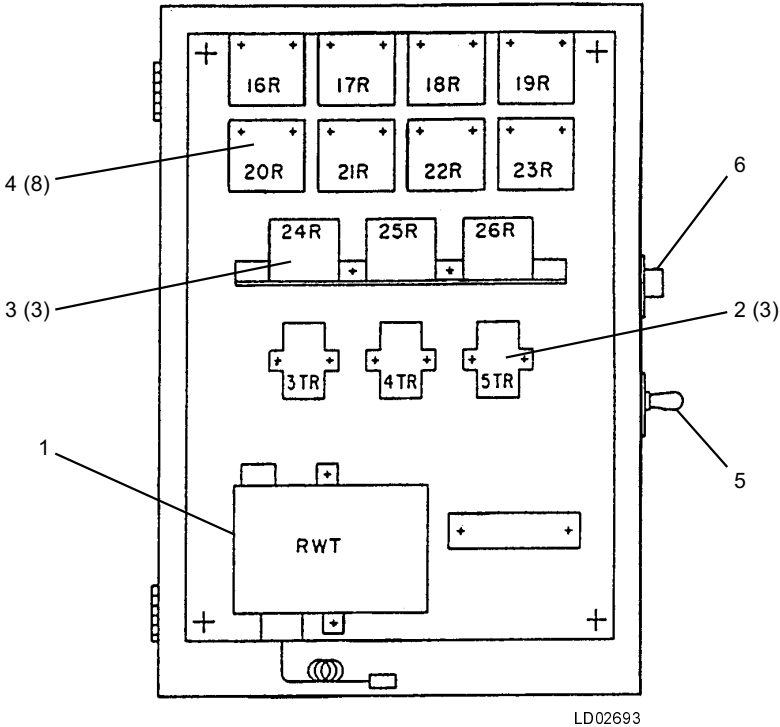
THREE UNITS



ITEM	DESCRIPTION	QUANTITY	PART NUMBER
1	Controller, RWT	1	025-10215-000
2	Relay, Time Delay	2	024-13711-000
3	Relay, Control	3	024-27246-000

ITEM	DESCRIPTION	QUANTITY	PART NUMBER
4	Relay, Control	2	024-14519-000
5	Switch, Toggle	1	024-11736-000
6	Switch, Toggle	1	024-17026-000

FOUR UNITS



ITEM	DESCRIPTION	QUANTITY	PART NUMBER
1	Controller, RWT	1	025-10214-000
2	Relay, Time Delay	3	024-13711-000
3	Relay, Control	3	024-27246-000

ITEM	DESCRIPTION	QUANTITY	PART NUMBER
4	Relay, Control	8	024-14519-000
5	Switch, Toggle	1	024-11736-000
6	Switch, Rotary	1	024-20494-000

MISCELLANEOUS AND ACCESSORIES

COMPOUND

DESCRIPTION	PART NUMBER	QUANTITY
Compound, Heat Conductive (For Thermometer Wells)	013-00898-000	4 Oz. Can

TOUCH-UP PAINTS – SPRAY CANS

DESCRIPTION	PART NUMBER
Caribbean Blue Enamel	013-01835-000
Black (Control Center)	Purchase Locally

TEMPERATURE RECORDER

DESCRIPTION		PART NUMBER
HZ	NUMBER OF PENS	
60	1	025-09658-000
	2	025-09823-000
50	1	025-12650-000
	2	025-12330-000

FLOW SWITCH CONTROL

DESCRIPTION	PART NUMBER
150 DWP	024-26116-000
300 DWP	024-12144-000

DIFFERENTIAL PRESSURE CONTROL

DESCRIPTION	PART NUMBER
Control, Differential Pressure*	025-30919-000

*300 Psi Maximum Working Pressure

YORK OIL	PART NUMBER (5 Gallon Container)	OIL TYPE
YORK "C"	011-00312-000	MINERAL
YORK "P"	011-00589-000	POE
YORK "H"	011-00549-000	POE

NOTES



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