



NO	DESCRIPTION	INT	PT
FMT 3054			
REVISIONS			
DATE			
BY			
CHECKED			
APPROVED			
J. RUSSELL FLOWERS, INC.			
RELEASER: J. RUSSELL FLOWERS, INC.			
CARGO PIPING DIAGRAM & VAPOR SYSTEM DIAGRAM			
DATE: 1/17/70			
SCALE: 1/2\"/>			

CARGO SYSTEM VALVES	
1A	PUMP SUCTION VALVE TANK #1 & #2
1B	PUMP SUCTION VALVE TANK #1 & #2
1C	PUMP SUCTION VALVE, #3 TANK
1D	PUMP SUCTION VALVE, #3 TANK
2	PUMP DISCHARGE VALVE
3	PUMP DISCHARGE CHECK VALVE
4	PRESSURE RELIEF VALVE
5A	CARGO FILL/LOAD VALVE TANKS #1 & #2
5B	CARGO FILL/LOAD VALVE TANKS #1 & #2
5C	CARGO FILL/LOAD VALVE, TANK #3 ONLY
5D	CARGO FILL/LOAD VALVE, TANK #3 ONLY
6	PORT & STBD. HEADER VALVES
7	#1 PORT CARGO FILL/SUCTION VALVE
8	#1 STBD. CARGO FILL/SUCTION VALVE
9	#2 PORT CARGO FILL/SUCTION VALVE
10	#2 STBD. CARGO FILL/SUCTION VALVE
11	#3 PORT CARGO FILL/SUCTION VALVE
12	#3 STBD. CARGO FILL/SUCTION VALVE
PU	PUMP

VAPOR SYSTEM:	
V1	VENT STACK VALVE
V2A	PRESS/VACCUUM VALVE
V2B	PRESS/VACCUUM VALVE TANK #3 ONLY
V3	VENT STACK
V4	RAIN CAP
V5	VAPOR SWIVEL JOINT
V6	CARGO VAPOR HDR VALVE
V7	VAPOR BLOCK VALVE
V8	VAPOR BLOCK VALVE

STRIPPING SYSTEM:	
7A	#1 PORT CARGO STRIPPING VALVE
7B	#1 PORT CARGO AUX. STRIPPING VALVE
8A	#1 STBD. CARGO STRIPPING VALVE
8B	#1 STBD. CARGO AUX. STRIPPING VALVE
9A	#2 PORT CARGO STRIPPING VALVE
9B	#2 PORT CARGO AUX. STRIPPING VALVE
10A	#2 STBD. CARGO STRIPPING VALVE
10B	#2 STBD. CARGO AUX. STRIPPING VALVE
11A	#3 PORT CARGO STRIPPING VALVE
11B	#3 PORT CARGO AUX. STRIPPING VALVE
12A	#3 STBD. CARGO STRIPPING VALVE
12B	#3 STBD. CARGO AUX. STRIPPING VALVE
13	AUX. STRIPPING SHUTOFF VALVE
14	PUMPWELL STRIPPING VALVE

CARGO LOADING: TANKS #1 & #2 ONLY	
A	OPEN VALVES NO. 5A, 5B, 6, 7, 8, 9, 10
B	CLOSE VALVES NO. 1A, 1B, 1C, 1D, 5C, 5D, 11, 12
C	VENT TANKS

CARGO LOADING: TANK #3 ONLY	
A	OPEN VALVES NO. 5C, 5D, 6, 11, & 12
B	CLOSE VALVES NO. 1A, 1B, 1C, 1D, 2, 5A, 5B
C	VENT TANK

CARGO DISCHARGE TANKS #1 & #2 ONLY	
A	OPEN VALVES NO. 1A, 1B, 2, 6, 7, 8, 9, 10
B	CLOSE VALVES NO. 1C, 1D, 5A, 5B, 5C, 5D, 11, & 12
C	VENT TANKS

CARGO DISCHARGE TANK #3 ONLY	
A	OPEN VALVES NO. 2, 1C, 1D, 6, 11, & 12
B	CLOSE VALVES NO. 1A, 1B, 5A, 5B, 5C, 5D, 7, 8, 9, 10
C	VENT TANK