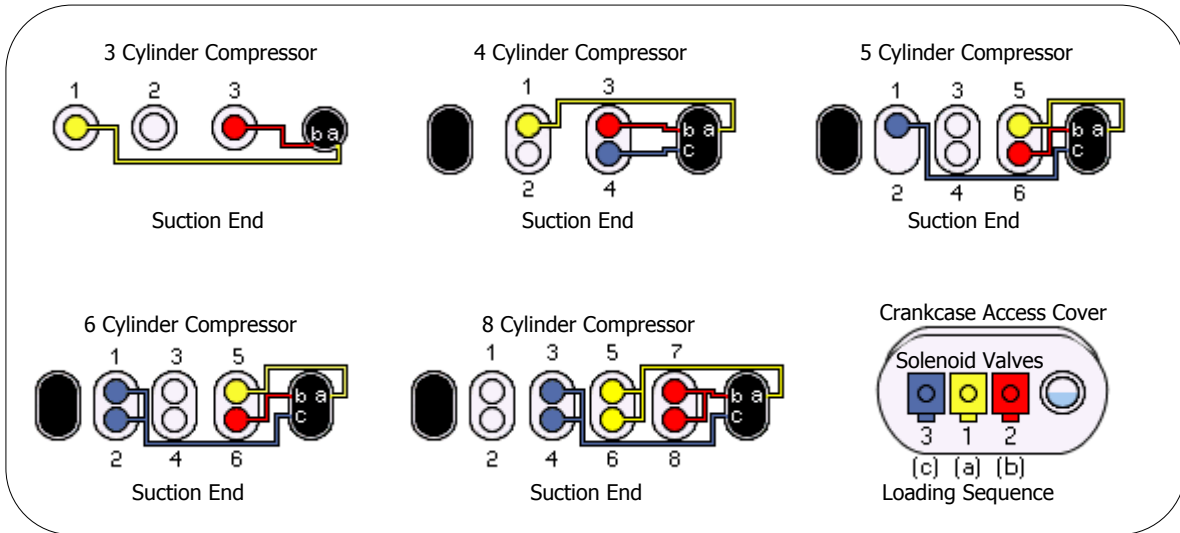


## Trane Model F Compressors

### Unloading Characteristics



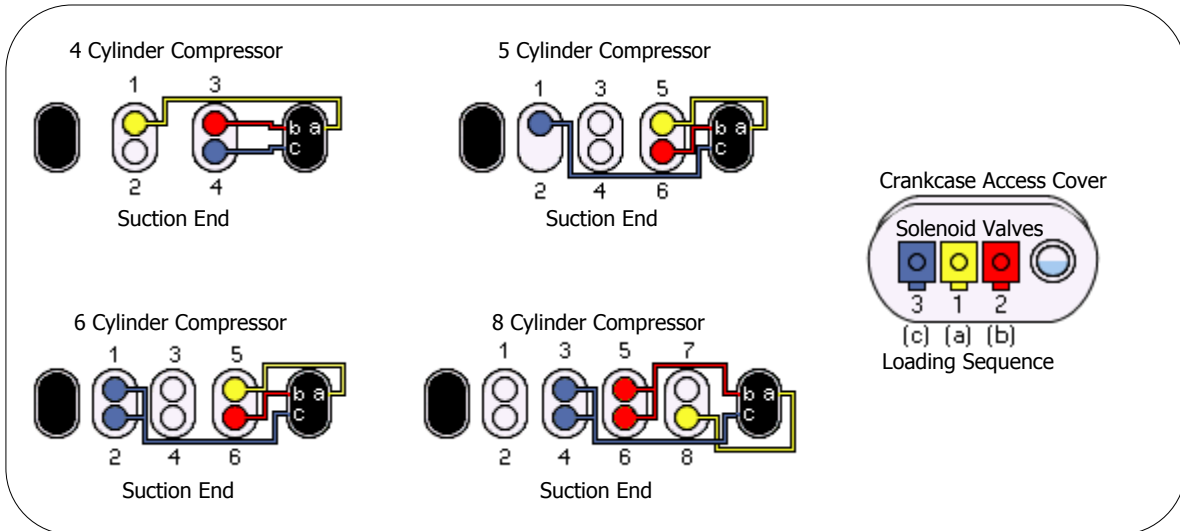
The above diagrams illustrate the unloader oil tubing from the right crankcase access opening to the cylinder deck. The extreme right and left ovals indicate the crankcase access openings on each side of the compressor. The circles between indicate the cylinders. The illustrations are drawn with the cylinder heads removed. The numbers indicate the cylinder number. The letters "a", "b", and "c" indicate the sequence that oil is admitted to the cylinder loaders causing them to allow the cylinder(s) to actuate or pump. The unloading sequence is the reverse order: "c", "b", and "a".

This sequence is followed for both electric and suction actuator controls. The illustrations indicate a standard compressor. For a right hand compressor the oil tubing would start from the left crankcase access opening.

Loading Sequence	3 Cylinders	4 Cylinders	5 Cylinders	6 Cylinders	8 Cylinders
Unloaded	2	2	3, 4	3, 4	1, 2
First Stage	2, 1	2, 1	3, 4, 5	3, 4, 5	1, 2, 5, 6
Second Stage	2, 1, 3	2, 1, 3	3, 4, 5, 6	3, 4, 5, 6	1, 2, 5, 6, 7, 8
Third Stage		2, 1, 3, 4	3, 4, 5, 6, 1	3, 4, 5, 6, 1, 2	1, 2, 5, 6, 7, 8, 3, 4

## Trane Model E Compressors

### Unloading Characteristics



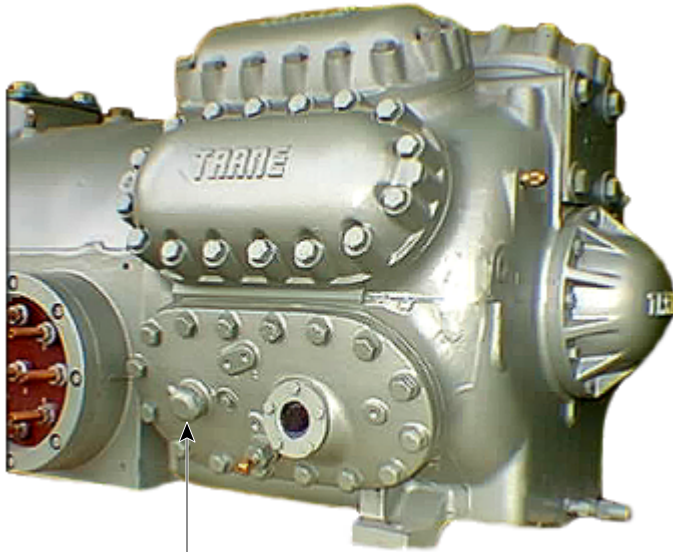
The above diagrams illustrate the unloader oil tubing from the right crankcase access opening to the cylinder deck. The extreme right and left ovals indicate the crankcase access openings on each side of the compressor. The circles between indicate the cylinders. The illustrations are drawn with the cylinder heads removed. The numbers indicate the cylinder number. The letters "a", "b", and "c" indicate the sequence that oil is admitted to the cylinder loaders causing them to allow the cylinder(s) to actuate or pump. The unloading sequence is the reverse order: "c", "b", and "a".

This sequence is followed for both electric and suction actuator controls. The illustrations indicate a standard compressor. For a right hand compressor the oil tubing would start from the left crankcase access opening.

Loading Sequence	4 Cylinders	5 Cylinders	6 Cylinders	8 Cylinders
Unloaded	2	3, 4	3, 4	1, 2, 7
First Stage	2, 1	3, 4, 5	3, 4, 5	1, 2, 7, 8
Second Stage	2, 1, 3	3, 4, 5, 6	3, 4, 5, 6	1, 2, 7, 8, 5, 6
Third Stage	2, 1, 3, 4	3, 4, 5, 6, 1	3, 4, 5, 6, 1, 2	1, 2, 7, 8, 5, 6, 3, 4

## Trane Model E and F Compressors

### Unloading Characteristics



Adjusting screw (under cap).

The capacity control plate shown is on a standard compressor. For a right hand compressor the plate is located on the opposite side.

#### SUCTION ACTUATOR ADJUSTMENT PROCEDURE:

Impose a load on the system that will increase the suction pressure above the control set point desired with all of the cylinders fully loaded. The suction actuator adjustment screw should be turned counterclockwise slowly until the internal spring tension has been relieved.

Close the suction service valve until the control set point pressure is reached. Turn the suction actuator adjustment screw clockwise slowly until the first stage of unloading has occurred as evidenced by a change in motor amperage and the sound of the compressor.

The suction actuator control is now set and the suction service valve can be fully opened.