

## HD603-TC

HD Series  
Triple Seal Compressor for  
Butadiene Recovery  
driven @ 790 RPM

### Gas

Butadiene  
n = 1.12  
MW = 54.09

### Inlet

50 - 14.7 psia  
(3.45 - 1.01 bar-a)  
Ambient Temperature

### Outlet

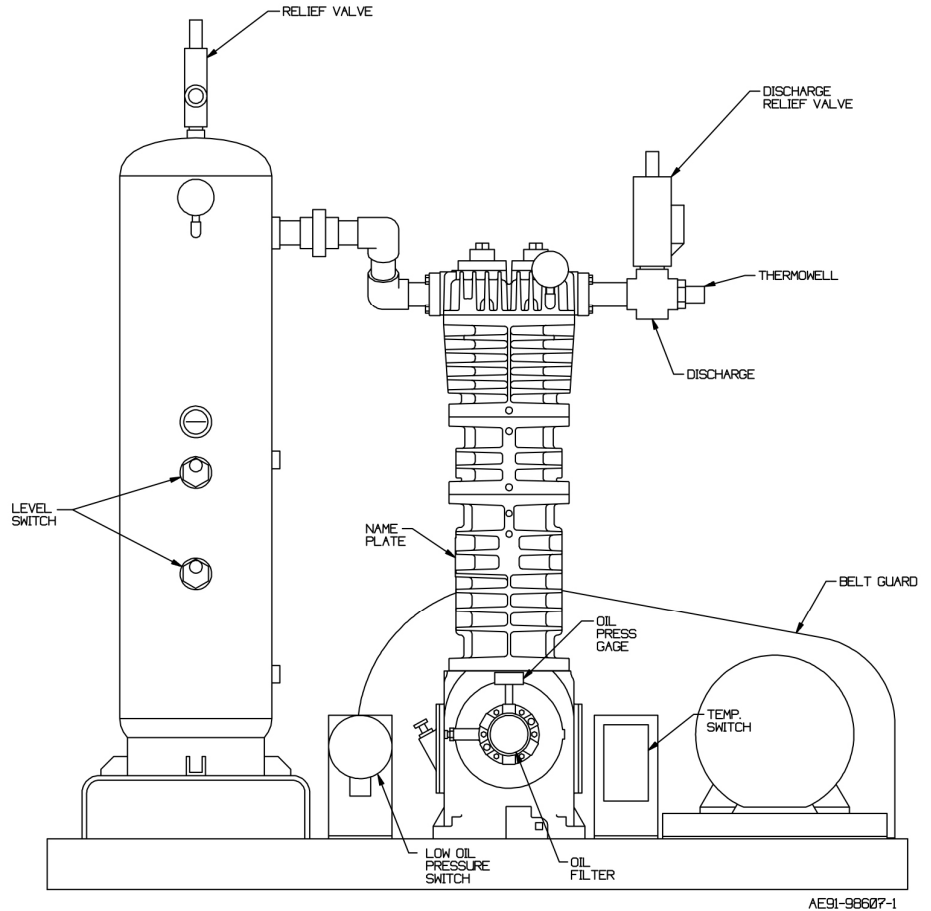
75 psia (5.2 bar-a)

### Compressor Construction

TNT-12 Treated  
FKM O-Rings  
Triple Seals

### Accessories

ASME Code Liquid Trap  
15 HP TEFC Motor  
10 Micron Oil Filter  
2 Float Switches  
Low Oil Pressure Switch  
Two ASME Relief Valves  
High Temperature Switch  
Pressure Gauges  
525 psi Hydrostatic Test



### Installation Example

This HD603 gas compressor is being used to evacuate butadiene from rail cars in Kentucky. At 790 rpm, it will reduce the pressure in a 33,000 gal (125 m<sup>3</sup>) rail car from 50 psia (3.45 bar-a) to 14.7 psia (1.01 bar-a) in about 2 hours. The HD603 has 3 seals on each rod forming two distance piece chambers to provide the utmost leakage control. All ferrous parts in contact with the gas are TNT-12 treated to provide superior corrosion and wear resistance for extended service life. The external automotive type oil filter ensures ultra clean oil to extend bearing life. The liquid trap has two float switches to provide a shutdown signal if too much liquid accumulates in the trap. The low oil pressure switch and high discharge temperature switch both provide indication of problems before expensive damage has occurred.