

COMPRESSOR SOLUTIONS

HD603-TC

Triple Seal Compressor for Butadiene Recovery driven @ 790 RPM

Gas:

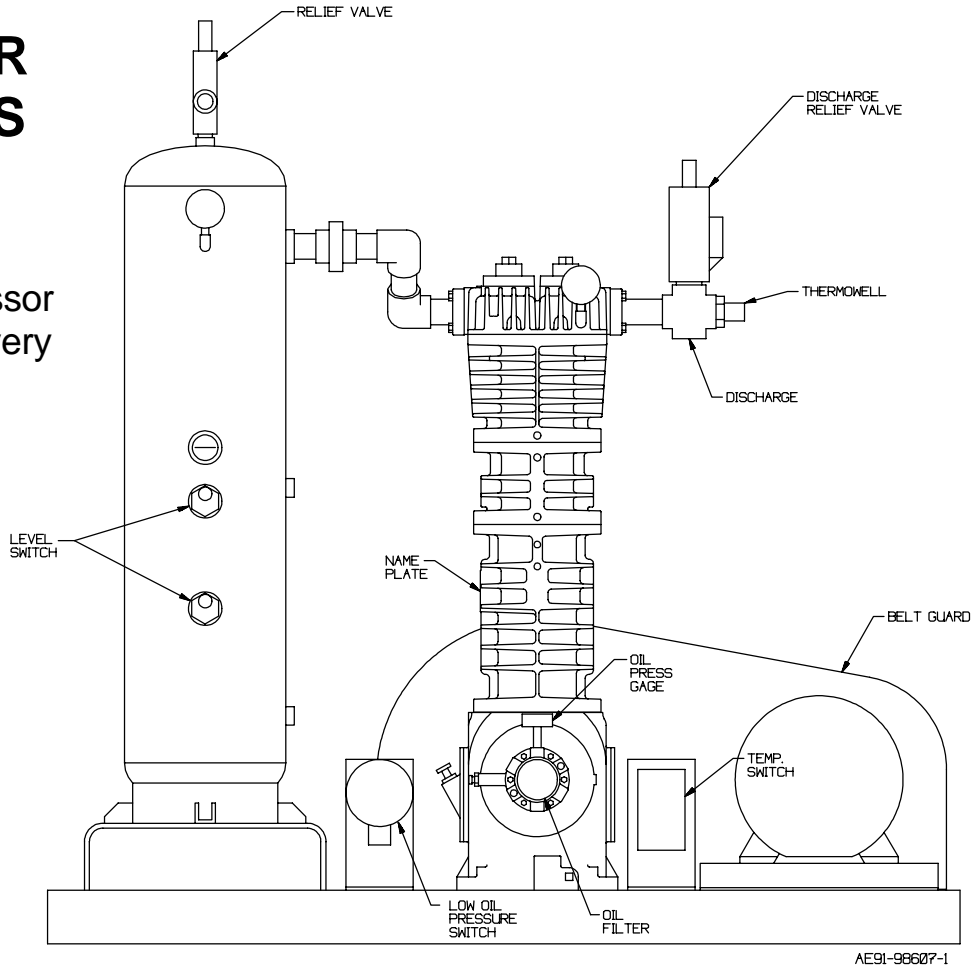
Butadiene
 $n = 1.12$
 MW = 54.09

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
 2 Float Switches
 Hi Temperature Switch

15 HP TEFC Motor
 Low Oil Pressure Switch
 Pressure Gauges

10 Micron Oil Filter
 Two ASME Relief Valves
 525 psi Hydrostatic Test

This HD603 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 m³) 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.