



Pressure, Rated Discharge (RDP)

ISO-13631 and API-618 define the Rated Discharge Pressure as the "highest pressure required to meet the conditions specified by the purchaser for the intended service".

Rated Discharge Pressure is conditional upon the [Maximum Allowable Working Pressure](#) based on the guidelines in ISO-13631 and API-618. The maximum allowable working pressure shall exceed the RDP by at least 10% or 25 psi (1.7 bar), whichever is greater.

Ariel does allow for operation above the cylinder RDP provided there is ample room for the pressure relief valve range and for a high pressure shutdown device. Typically, when the operating pressure is above the RDP, a pilot operated relief valve must be used (rather than a spring operated relief valve). The relief valve must be set no higher than the cylinder MAWP.