



## Pressure Drop

Ariel performance program utilizes inputs for the pressure at the customer line connection, inlet, and outlet. Pressure drops for suction, interstage, and discharge equipment should be considered while defining the pressures in the performance program.

Typical suction and discharge pressures are defined at the customer's line connections. Any pulsation vessels, knock out drums or coolers should be accounted for in the pressure loss section of the performance input.

The Ariel performance program will assume average values for these pressure losses for each interstage and final discharge pressure, as shown in the table below. These values can be manually input if known. The first stage suction pressure loss is initially set at 0 psi, any equipment upstream of the cylinder flange should be input.

Flange Pressure	Pressure Loss	Not To Exceed
35 psia and below	5%	1 psi
36 psia to 250 psia	3%	5 psi
251 psia to 1000 psia	2%	10 psi
1001 psia and above	1%	

Reference [Ariel Calculation Method](#).