FloEngineered
PIPING SOLUTIONS,INC.

Design your piping and fittings

Pipes and fittings also affect the pressure set point of your compressor. A compressed air system that is performing well should have a pressure drop of less than 10% between the compressor outlet and all points of use. There are ways to ensure a minimal pressure drop is obtained, including:

- Optimise pipe diameter, length and the number of bends. Pressure drop is a function of a number of things – importantly: the velocity of the air down the pipe (which is dictated by your air demand combined with pipe diameter); the distance of the piping between the compressor and the end uses; and the number and type of bends. By paying attention to these things, total pressure drop can be minimised.

- Select valves and fittings with low pressure drop.