

Recommended Hose Configurations

This document details acceptable hose configuration with use of Stanley hydraulic tools and power units.

When a longer hose configuration is used by connecting hoses together, system back pressure is increased. Too high a back pressure may reduce performance and life of the tool. Stanley recommends back pressure not exceed 250 psi / 17 bar. In addition, oil temperature should be limited to 140° F / 60° C.

For both 5 and 8 gpm (20 - 30 lpm) tools, standard hose with a 1/2" inside diameter is acceptable to use up to 100' or 30m when configured with **(2) sets of 50' hose**.

Stanley **does not** recommend the following configurations with 1/2" diameter hose.

- (4) sets of 25' hose
- (1) set of 50' hose + (2) sets of 25' hose

These configurations will drive back pressure beyond recommended levels. For longer lengths between 100' to 300' Stanley recommends increasing the hose diameters to the following:

Pressure Line - 5/8" Inside Diameter Hose

Return Line - 3/4" Inside Diameter Hose

The increased hose diameter will alleviate back pressure and allow proper tool operation.

Performance Notes

When operating with longer hose lengths with the same diameter hose, back pressure increases. When operating hydraulic tools at 100' with the 1/2" diameter hose, some decrease in performance is possible.

This should not noticeably affect overall performance of the tool, but note it is not under optimal conditions with longer hose configurations.

