

Alternative Flow Bolt

Threaded fastener with formed grooves for fluid flow.

Application Need:

Hydraulic (or pneumatic) systems such as brake systems must allow fluid flow within the system. Traditional flow bolt or “banjo” bolt designs involve the cross drilling of a bolt after initial cold forming. Costs can be reduced by eliminating this secondary process of flow bolt manufacture.



Solution:

A formed groove design allows for fluid flow without the need for a secondary cross drill operation.

Benefits:

- Reduced manufacturing cost due to elimination of secondary operation
- Improved bolt tensile strength

NET COST SAVINGS!!!

How it works:

Longitudinal *formed* grooves on outside surface of bolt body allow for fluid flow. MNP will work to adjust and test per customers flow rate and torque tightening requirements.



Cross drilled flow bolt on left, new design on right

This flow bolt design is pending patent application at MNP.

Contact your sales/engineering representative or contact the Eng Center at 248-307-0567.