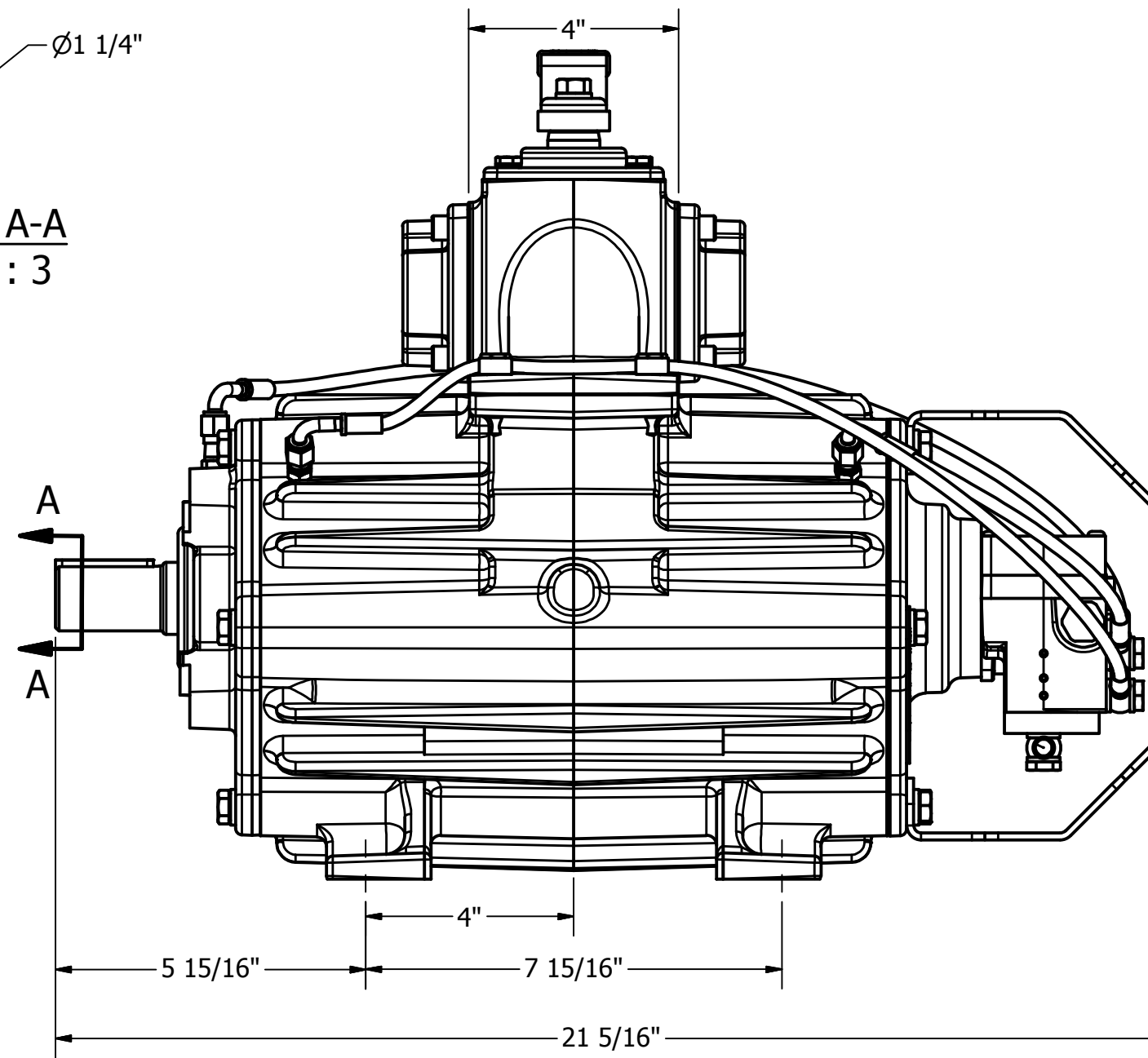


SECTION: A-A
SCALE: 1 : 3



National Vacuum Equipment, Inc.

Challenger Series 304 Vacuum Pump

Part #110-304-D (Clockwise)

Part #110-304-S (Counter Clockwise)

Part #117-304-HYD-S (Counter Clockwise with Hydraulic Drive Option)