

HTS38-34 Proportional Pressure Control



Performance Under Pressure

This document provides a technical overview of the HTS38-34, a direct-acting proportional pressure reducing/relieving valve. It is designed to offer a combination of high-pressure capability, fast response times, low leakage, and a compact package in an industry standard cavity.

KEY FEATURES AND SPECIFICATIONS

Ratings

- › Maximum Inlet Pressure: 350 bar (5000 psi)
- › Maximum Control Pressure: Up to 152 bar (2200 psi)
- › Flow Capacity: stable control from 0 to 19 lpm (5 gpm)
- › Maximum Internal Leakage: 95 ml/min (5.8 in³/min)
 - 40% less than other direct acting and 70% less than pilot operated valves

TARGET APPLICATIONS

The features of the HTS38-34 make it suitable for several specific functions in mobile and agricultural equipment.

Agricultural Downforce & Mechanical Weeders

In applications like planter downforce control and mechanical weeders, the HTS38-34's fast response time is an advantage over slower directional or flow control valves.



Braking Systems

The valve has seen early success a trailer brake application in the tunnel boring industry, helping the customer meet secondary brake regulations which are expected to be required by the EU Brake Directive 2015/68 for agricultural and forestry vehicles.



Differential Control

The valve can be used to ramp pressure for locking differentials or to adjust slip torque. Its low leakage and competitive cost make it a practical solution for adding this functionality.

Baler Tensioning

For agricultural balers requiring moderate pressure and flow, the valve's low-leakage characteristic is beneficial for tensioner circuits where leakage is a concern.



For detailed specifications, CAD models, or to discuss your specific application, please see www.hydraforce.com/products/cartridge-valves/electro-proportional-valves/hts38-34/.

