

AUTOGARD SERIES 600 - TORQUE LIMITER

The Autogard Airjustor is a pneumatically controlled, combined torque limiter and disengaging clutch that offers the power transmission engineer a host of new drive control options.

As a disengaging clutch the air is dumped at the press of a button, the drive balls roll out of the seats without skidding to completely disengage the drive, and the plates are held apart by spring pressure so that no drive is transmitted by the coupling. Shield bearings are provided between the hub and main adaptor/ drive plate to give completely free running clutch.



As a torque limiter, overload protection for the drive is provided by the same mechanism. The supply air pressure may be set in the range of 1.4 to 5.4 bar (20-80 psi) to give the precise overload torque requirement using a pressure regulator. This can be done manually during normal running to take account of changing loads, or automatically using a dual regulator system with a timer or other control. This allows high start torque to be accommodated before switching to lower running torque. When the torque setting is exceeded, the balls begin to roll out of their seats, forcing the plates apart against the air pressure. This motion operates a pneumatic limit switch which "dumps" the air pressure, disengaging the clutch and releasing the drive from the overloaded machine. Re-engagement is affected in both cases by simply operating a push button initiating valve. Rotation of the drive will then engage the clutch.

FEATURES AND BENEFITS

- Sensitive and accurate torque limitation.
- "On the fly" torque overload adjustment.
- Increase air pressure for high starting torques. Reduce air pressure for lower running torque.
- Total drive disconnection for on/off drive applications.
- Rolling disengagement with no ball skidding for increased sensitivity and life.
- Synchronous re-set.
- The standard design accommodates larger torque ranges.
- Series 600 is offered in a large number of styles ensuring the right solution is available for all applications.

DOWNLOADS

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- ▼ [Installation and maintenance.](#)