

## **Operating Data**

Media

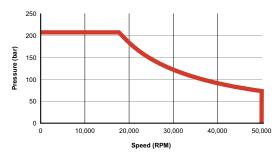
Filtration Maximum Speed Maximum Pressure Maximum Flow Maximum Temperature

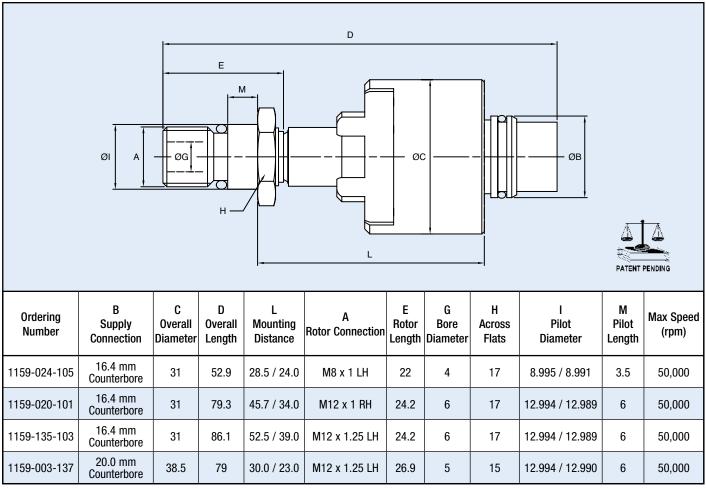
Water-based Co MQL Air up to 10 bar		
ISO 4406 Class 17/15/12, max. 60 micron		
50,000 min <sup>-1</sup>	50,000 rpm	
210 bar	3,045 psi	
33 l/min (6 mm bore)		4
71°C	160°F	Se

## DEUBLIN

## 1159 Series Bearingless AutoSense™ "Long Stroke" Rotating Unions for Coolant and Air Service with CoolControl™ Technology

- Single passage for all media
- Patented AutoSense technology automatically changes between closed seals and controlled leakage operation in response to type of media
- Non-rotating element has "stroke" (axial movement) of up to 13.5 mm, to track drawbar movement even when the union is mounted on the clamping device
- CoolControl technology utilizes an air pilot to hold seals closed during axial drawbar movements, thus mimimizing coolant leakage during tool change cycles
- Full flow design has no obstructions to trap chips or debris
- Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions





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