

# DEUBLIN

## High Flow Rotating Unions for specific applications including Aerospace & machining of special materials

1129-470-511



### Features

- Pop-Off Seals for unlimited unpressurized dry run
- Single passage for coolant or MQL
- M30 x 1.5 LH Rotor
- Housing 34.0 mm counterbore mounting



NO AIR PRESSURE WITH ROTATION

### Operating Data

Media	Water-based Coolant
	MQL
Filtration	ISO 4406 Class 17/15/12, max. 60 micron
Maximum Speed	10,000 min-1 10,000 rpm
Maximum Pressure	140 bar 2,030 psi
Maximum Flow	276 l/min (16mm bore)
Maximum Temperature	71°C 160°F

1110-800-802 and 1110-800-805



### Features

- Pop-Off Seals for unlimited unpressurized dry run
- Single passage for coolant or MQL
- 48 g6 Housing Bore Mounted
- Hexagon 13 D10 Rotor Connection
- G 1/2" radial supply port
- Axial drawbar stroke:  
1110-800-802: 8 mm  
1110-800-805: 18 mm



NO AIR PRESSURE WITH ROTATION

### Operating Data

Media	Water-based Coolant
	MQL
Filtration	ISO 4406 Class 17/15/12, max. 60 micron
Maximum Speed	17,000 min-1 17,000 rpm
Maximum Pressure	140 bar 2,030 psi
Maximum Flow	200 l/min (12mm bore)
Maximum Temperature	71°C 160°F

1110-960-965



### Features

- Pop-Off Seals for unlimited unpressurized dry run
- Single passage for coolant or MQL
- 65 g6 Housing Bore Mounted
- Hexagon 16 D10 Rotor Connection
- 1" NPT RH radial supply port
- Allows drawbar stroke up to 17 mm



NO AIR PRESSURE WITH ROTATION

### Operating Data

Media	Water-based coolant
	MQL
Filtration	ISO 4406 Class 17/15/12, max. 60 micron
Maximum Speed	5,000 min-1 5,000 rpm
Maximum Pressure	27 bar 390 psi
Maximum Flow	200 l/min (14.3mm bore)
Maximum Temperature	71°C 160°F

1110-020-124



### Features

- Pop-Off Seals
- Single passage for coolant or MQL
- M22 x 1.5 RH Rotor Thread Mounted
- 29.993 / 29.980 Rotor Pilot
- G 1/2" radial supply port



NO AIR PRESSURE WITH ROTATION

### Operating Data

Media	Water-based coolant
	MQL
Filtration	ISO 4406 Class 17/15/12, max. 60 micron
Maximum Speed	8,000 min-1 8,000 rpm
Maximum Pressure	27 bar 390 psi
Maximum Flow	163 l/min (12.7mm bore)
Maximum Temperature	71°C 160°F

# DEUBLIN

## Special 2-Passage Rotating Unions for MQL Mixed in the Spindle

1112-100-101, 1112-000-165 and 1112-000-343



### Features

- Two concentric passages for mixing oil and air in the spindle
- Rotating inner passage for oil lance
- Threaded rotor for easy installation. M16x1.5LH, 5/8"-18 UNFLH, M12x1.25 LH rotors available
- Full-flow design has no obstructions to trap chips or debris
- Patented AutoSense technology for unlimited dry running without media pressure

### Operating Data

Media	Oil or Water (inner passage) Air (outer passage)	
Filtration	ISO 4406 Class 17/15/12, max. 60 micron	
Maximum Speed	20,000 min <sup>-1</sup>	20,000 rpm
Maximum Pressure		
Oil / Water	62 bar	900 psi
Air	10 bar	145 psi
Maximum Flow	2.3 l/min	0.6 gpm
Maximum Temperature	71°C	160°F

1112-240-001 and 1112-243-001



### Features

- Two concentric passages for mixing oil and air in the spindle
- Rotating inner passage for oil lance
- Bore mounted design for easy installation
- Patented Pop-Off™ and AutoSense™ technologies allow unlimited dry running without media pressure

### Operating Data

Media	Oil or Coolant (Inner Passage) Air (outer passage)	
Filtration	ISO 4406 Class 17/15/12, max. 60 micron	
Maximum Speed	30,000 min <sup>-1</sup>	30,000 rpm
Maximum Pressure		
Oil / Coolant	140	2030 psi
Air	8 bar	116 psi
Max. Flow	6 l/min	1.6 gpm
Maximum Temperature	71°C	160°F

1122-923-852



### Features

- Two concentric passages for mixing oil and air in the spindle
- Non-rotating inner passage for oil lance
- Bearingless design

### Operating Data

Media	Oil (inner passage) Air (outer passage)	
Filtration	ISO 4406 Class 17/15/12, max. 60 micron	
Maximum Speed	20,000 min <sup>-1</sup>	20,000 rpm
Maximum Pressure		
Oil / Water	12 bar	174 psi
Air	8 bar	116 psi
Maximum Flow	2.3 l/min	0.6 gpm
Maximum Temperature	71°C	160°F