

# DEUBLIN

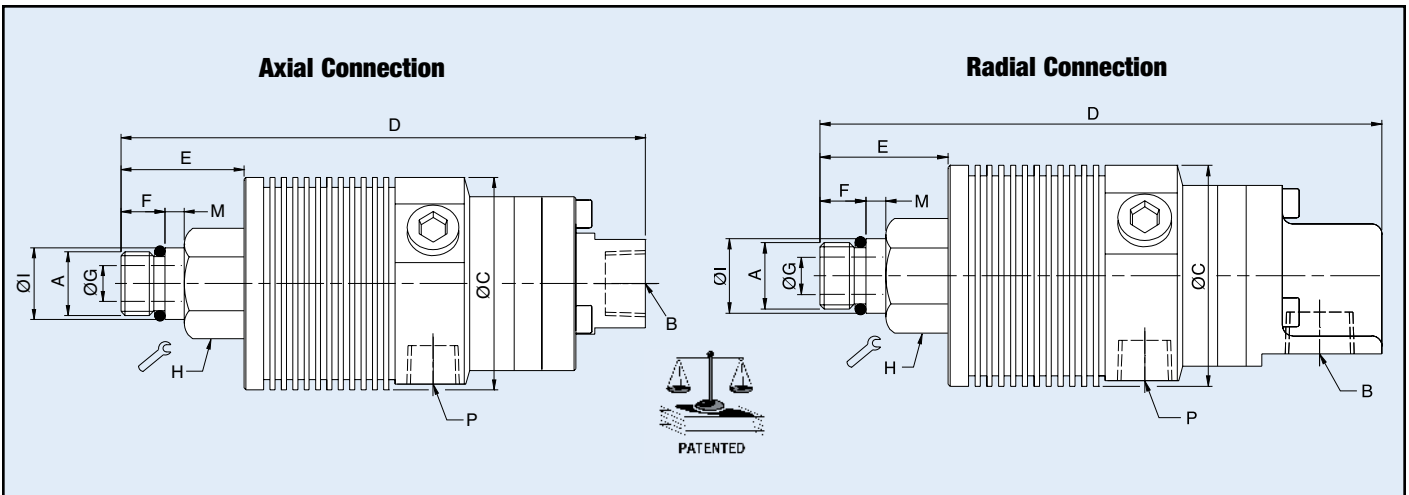
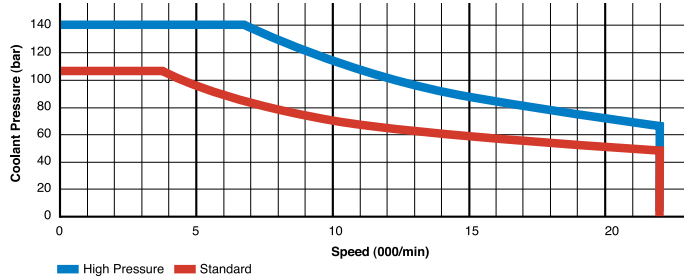
## 1114 Series AutoSense™ Rotor-Mounted Rotating Unions for Coolant and Air Service with Dry Running

- Single passage for both coolant and dry air
- Patented AutoSense™ technology automatically changes between closed seals and controlled leakage operation in response to the kind of media
- Dual ABEC 7 (ISO class P4) angular contact ball bearings
- Threaded rotor for easy installation
- Full-flow design has no obstructions to trap chips or debris
- Labyrinth system and large vents to protect bearings
- Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions
- Anodized aluminum housing resists corrosion



### Operating Data

Media	Water-based Coolant MQL (oil mist) up to 10 bar (145 psi) Air up to 10 bar (145 psi)		
Filtration	ISO 4406 Class 17/15/12, max. 60 micron		
Maximum Speed	22,000 min <sup>-1</sup> 22,000 rpm		
Maximum Pressure	See chart		
Maximum Flow	82 l/min	21.6 gpm	Standard
	24.3 l/min	6.4 gpm	High Pressure
Maximum Temperature	71°C	160°F	



	Ordering Number	B Supply Connection	C Overall Diameter	D Overall Length	P Vent Size (3 X 120°)	A Rotor Connection	E Rotor Length	F Thread Length	G Bore Diameter	H Across Flats	I Pilot Diameter	M Pilot Length
Standard	1114-011-165	3/8" NPT Axial	53	134	1/4" NPT	5/8"-18 UNF LH	34	14	9	15/16"	0.6555" / 0.6553"	5
	1114-021-188	G 3/8" Axial	53	131	G 1/4"	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1114-041-188	3/8" PT Axial	53	131	1/4" PT	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1114-010-165	3/8" NPT Radial	53	140	1/4" NPT	5/8"-18 UNF LH	34	14	9	15/16"	0.6555" / 0.6553"	5
	1114-020-188	G 3/8" Radial	53	137	G 1/4"	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1114-040-188	3/8" PT Radial	53	137	1/4" PT	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
High Pressure	1114-024-212	G 1/4" Axial	53	131	G 1/4"	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1114-023-212	G 1/4" Radial	53	137	G 1/4"	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1114-044-212	1/4" PT Axial	53	131	1/4" PT	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1114-043-212	1/4" PT Radial	53	137	1/4" PT	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5

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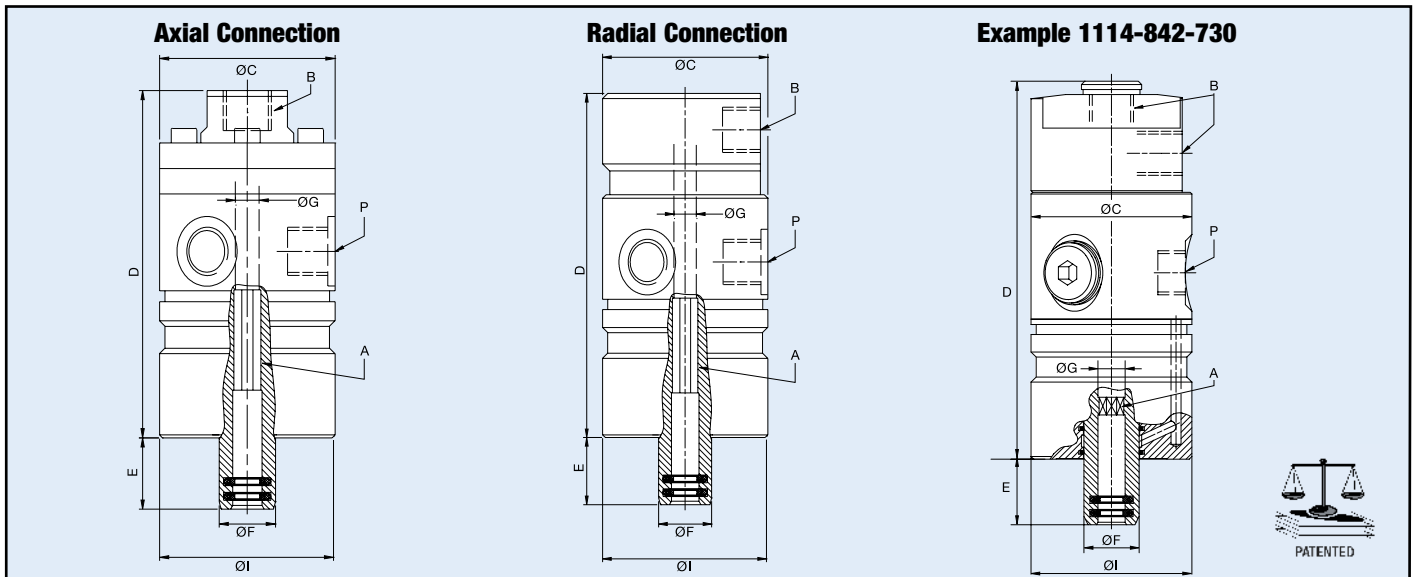
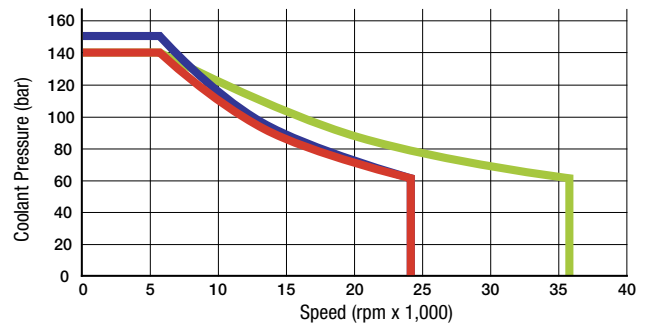
## 1114 Series AutoSense™ Bore-Mounted Rotating Unions for Coolant and Air Service with Dry Running



- Single passage for both coolant and dry air
- Patented AutoSense™ technology automatically changes between closed seals and controlled leakage operation in response to the kind of media
- Bore-mounted design for easy installation
- Accepts up to 19 mm of axial drawbar movement
- Matched, ISO class P4 hybrid ball bearings for smooth operation at high speeds
- Labyrinth system and large vents to protect ball bearings
- Full-flow design has no obstructions to trap swarf or debris
- Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions
- Anodised aluminium and stainless steel parts resist corrosion

### Operating Data

Media	Water-based Coolant MQL (oil mist) up to 10 bar (145 psi) Air up to 10 bar (145 psi)	
Filtration	ISO 4406 Class 17/15/12, max. 60 micron	
Max. Speed	see chart/table	
Max. Pressure	see chart/table	
Max. Flow		
1114-710-xxx	82 l/min	21.6 gpm
1114-842-730	82 l/min	21.6 gpm
1114-331-105	24,3 l/min	6.4 gpm
1114-92x-930	24,3 l/min	6.4 gpm
Max. Temperature	71 °C	160 °F



Ordering Number	B Supply Connection	C Overall Diameter	D Housing Length	P Drain Size Ø (3 x 120°)	A Rotor Connection	E Rotor Length	F Rotor Overall Diameter	G Bore Diameter	I Pilot Diameter	Max. Speed (rpm)	Max. Pressure (bar)
1114-331-105	G 1/4" Radial	48	88.5	4x G 1/8"	Octagon 7.4 D10	19.5	15.4	8.1 F9	48 h7	24,000	140
1114-710-730	G 3/8" Axial	59	111	G 1/4"	Octagon 9.25 D10	19.5	20	10 F9	48 g6	24,000	140
1114-710-717	G 3/8" Axial	59	111	G 1/4"	Hexagon 12 D10	25	18	11 H7	48 g6	24,000	140
1114-842-730	G 1/4" Axial & Radial	48	120	G 1/4"	Octagon 9.25 D10	19.5	16	10 F9	48 g6	24,000	150
1114-927-930	G 1/4" Axial	48	95	G 1/4"	Octagon 7.4 D10	19.5	15.4	8.1 F9	48 h7	36,000	140
1114-926-930	G 1/4" Radial	48	95	G 1/4"	Octagon 7.4 D10	19.5	15.4	8.1 F9	48 h7	36,000	140