DEUBLIN

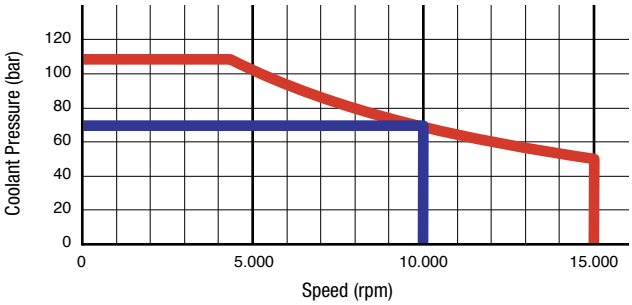
1101 Series “Closed Seal” Rotating Unions for Continuous Coolant Service

- Single passage for coolant or MQL
- Closed seals for transfer line and similar applications
- Full-flow design has no obstructions to trap chips or debris
- Bearing-supported with threaded rotor for easy installation
- Deep groove radial ball bearings for smooth operation
- Labyrinth system and large vents to protect ball bearings
- Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions
- Anodized aluminum components resist corrosion

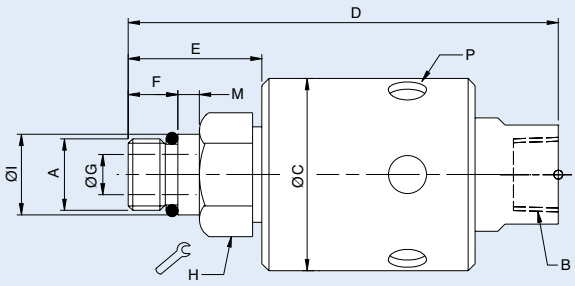
Operating Data

Media	Water-based Coolant MQL (oil mist) up to 10 bar (145 psi)	
Filtration	ISO 4406 Class 17/15/12, max. 60 micron	
Maximum Speed	15,000 min^{-1}	15,000 rpm
Maximum Pressure	105 bar	1,520 psi
Maximum Flow	20 l/min	5.3 gpm
Maximum Temperature	71°C	160°F

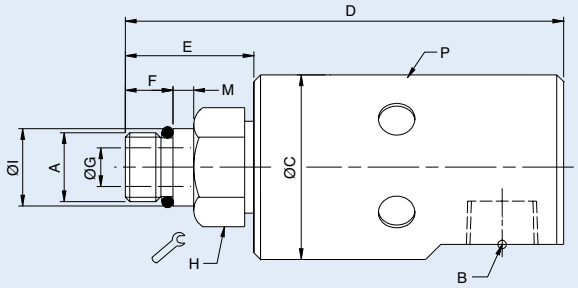
DO NOT RUN DRY



Axial Connection



Radial Connection



Ordering Number	B Supply Connection	C Overall Diameter	D Overall Length	P Vent Size Ø (6 x 60°)	A Rotor Connection	E Rotor Length	F Thread Length	G Bore Diameter	H Across Flats	I Pilot Diameter	M Pilot Length
1101-235-238	3/8" NPT Axial	43	100	9	5/8" -18 UNF LH	33	14	6	15/16"	0.6555" / 0.6553"	5
1101-235-239	3/8" NPT Axial	43	100	9	5/8" -18 UNF RH	33	14	6	15/16"	0.6555" / 0.6553"	5
1101-235-343	3/8" NPT Axial	43	96	9	M16 x 1.5 LH	30	11	6	24	17.993 / 17.988	5
1101-235-424	3/8" NPT Axial	43	93	9	M10 x 1 LH	27	11	3.2	24	10.994 / 10.989	3
1101-359-343	G 3/8" Axial	43	96	9	M16 x 1.5 LH	30	11	6	24	17.993 / 17.988	5
1101-195-343	G 3/8" Radial	43	102	9 PT	M16 x 1.5 LH	30	11	6	24	17.993 / 17.988	5
1101-632-343*	PT 3/8" Radial	43	103	3 x PT 1/8"	M16 x 1.5 LH	30	11	6	24	17.993 / 17.988	5
1101-265-343*	G 1/4" Radial	43	95	3 x PT 1/8"	M16 x 1.5 LH	30	11	6	24	17.993 / 17.988	5
1101-265-644*	G 1/4" Radial	43	91	3 x PT 1/8"	Flange TK-Ø 21	26	14.5	6	4 x M4	Ø 30.01 H6	8

* Also allowed for hydraulics, compressed air and defined dry run cycles at reduced operating conditions. For further information please contact *DEUBLIN* or see page 22.