ENGINEERING CATALOG

RU172 US

DEUBLIN

HOERBIGER Rotary Solutions

ROTATING UNIONS

water steam air hydraulic hot oil vacuum coolant custom applications

www.deublin.com

DEUBLIN

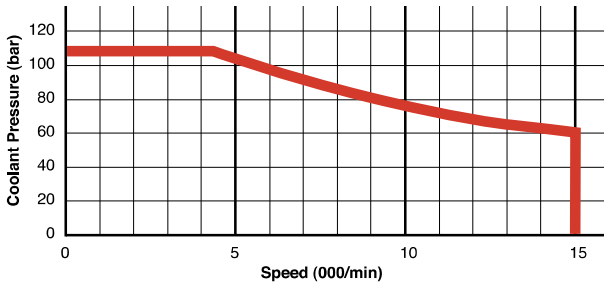
1101 Series "Closed Seal" Rotating Unions for Continuous Coolant Service

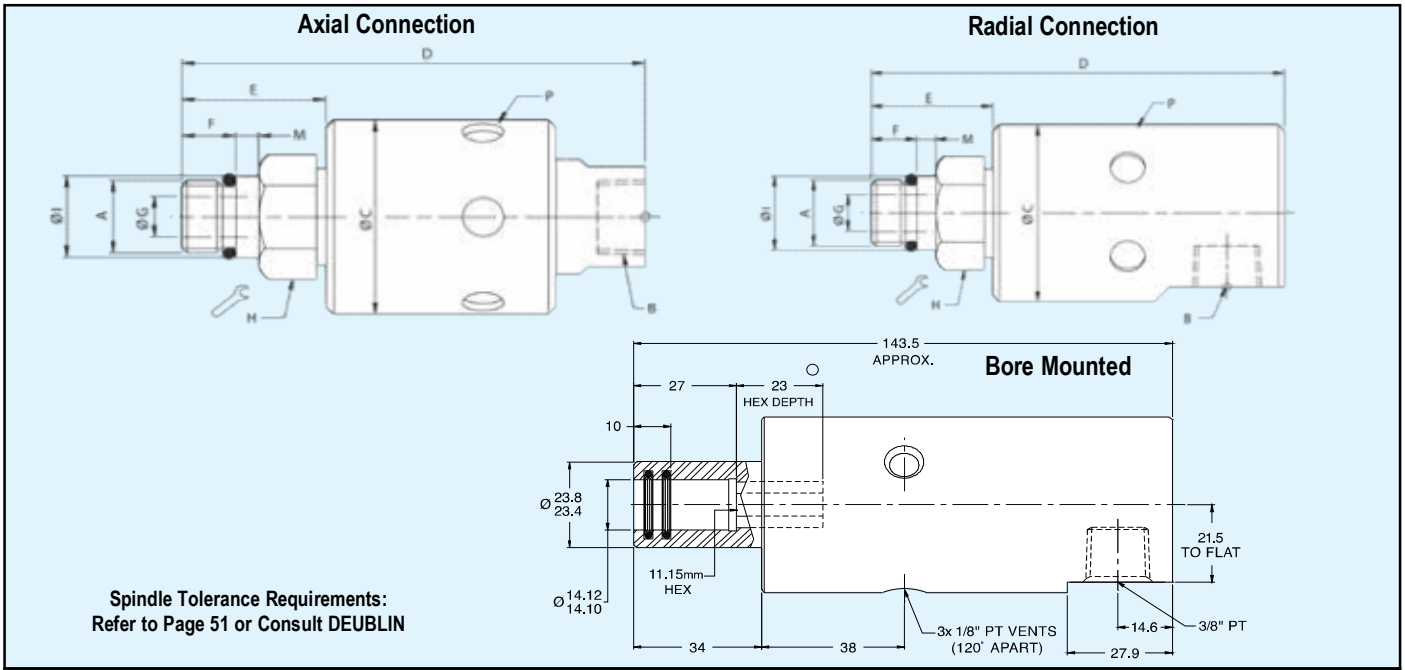
- Single passage for coolant or MQL
- Closed seals for transfer line and similar applications
- Full-flow design has no obstructions to trap chips or debris
- Bearing-supported with threaded rotor for easy installation
- Deep groove radial ball bearings for smooth operation
- Labyrinth system and large vents to protect ball bearings
- Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions
- Anodized aluminum housing resists 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 1/min	5.3 gpm
Maximum Temperature	160°F	71°C

DO NOT RUN DRY





Spindle Tolerance Requirements:
Refer to Page 51 or Consult DEUBLIN

	Ordering Number	B Supply Connection	C Overall Diameter	D Overall Length	P Vent Size (6 X 60°)	A Rotor Connection	E Rotor Length	F Thread Length	G Bore Diameter	H* Across Flats	I Pilot Diameter	M Pilot Length
Axial Connection	1101-235-238	3/8" NPT	43	100	9	5/8"-18 UNF LH	33	14	6	24	0.6555" / 0.6553"	5
	1101-235-239	3/8" NPT	43	100	9	5/8"-18 UNF RH	33	14	6	24	0.6555" / 0.6553"	5
	1101-235-343	3/8" NPT	43	97	9	M16 x 1.5 LH	30	11	6	24	17.993 / 17.988	5
	1101-235-424	3/8" NPT	43	93	9	M10 x 1 LH	27	11	3.2	24	10.994 / 10.989	3
	1101-359-343	G 3/8"	43	102	9	M16 x 1.5 LH	30	11	6	24	17.993 / 17.988	5
	1101-620-343	3/8" NPT	43	96	9	M16 x 1.5 LH	30	11	6	24	17.993 / 17.988	5
Radial	1101-195-343	G 3/8"	43	97	9	M16 x 1.5 LH	30	11	6	24	17.993 / 17.988	5
	1101-615-598[A]	3/8" PT	49	144	3 x 1/8" PT	14 mm female hex	34	NA	6	NA	14.122 / 14.097	27

Note A: This union is a bore-mounted design. *Metric