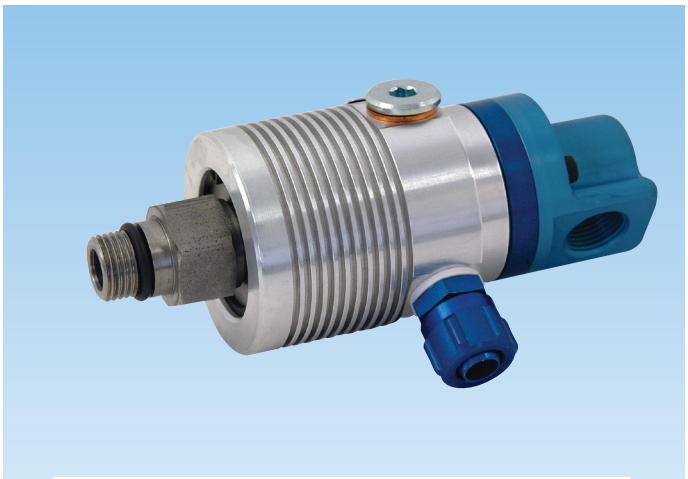


DEUBLIN

1109 Series Pop-Off™
Rotor-Mounted Rotating Unions for Coolant Service with Dry Running

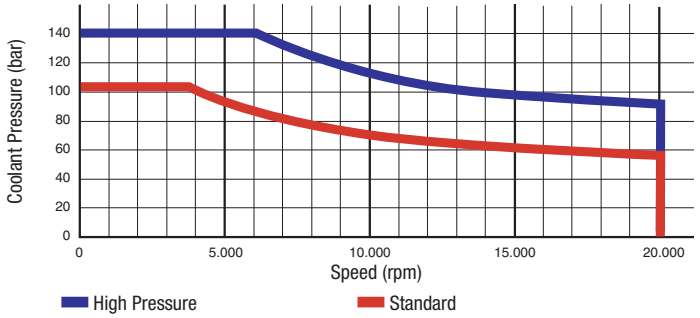
- Single passage for coolant or MQL
- Patented Pop-Off™ technology allows unlimited dry running without media pressure
- Full-flow design has no obstructions to trap swarf or debris
- Bearing-supported with threaded rotor for easy installation
- Dual ABEC 7 (ISO class P4) angular contact ball bearings
- Labyrinth system and large vents to protect ball bearings
- Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions
- Aluminium housing, endcap anodised resists corrosion

Operating Data

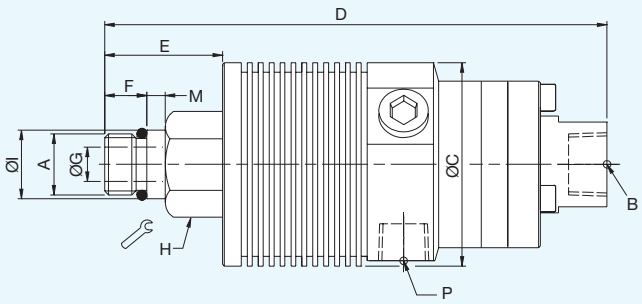
Max. Pressure		
Water-based Coolant	see chart	
MQL (oil mist)	145 PSI	10 bar
Max. Speed	20,000 RPM	20.000 min^{-1}
Max. Flow Rate		
Standard	21.6 GPM	82 l/min
HighPressure	6.4 GPM	24,3 l/min
Max. Temperature	71 °C	> 71 °C consult *DEUBLIN*
Filtration	ISO 4406 Class 17/15/12, max. 60 micron	



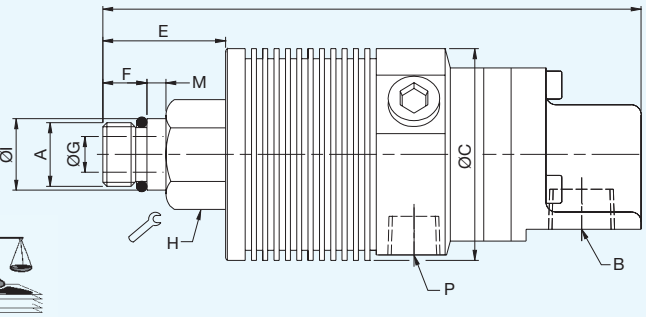
NO AIR PRESSURE WITH ROTATION



Axial Connection



Radial Connection





PATENTED

	Ordering Number	B Supply Connection	C Overall Diameter	D Overall Length	P Drain Size Ø (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	1109-011-165	3/8 NPT Axial	53	132	1/4 NPT	5/9-18 UNF LH	34	14	9	15/16"	0.6555" / 0.6553"	5
	1109-021-188	G 3/8 Axial	53	129	G 1/4	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1109-041-188	3/8 PT Axial	53	129	1/4 PT	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1109-010-165	3/8 NPT Radial	53	138	1/4 NPT	5/9-18 UNF LH	34	14	9	15/16"	0.6555" / 0.6553"	5
	1109-020-188	G 3/8 Radial	53	135	G 1/4	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1109-040-188	3/8 PT Radial	53	135	1/4 PT	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
High Pressure	1109-014-196	1/4 NPT Axial	53	132	1/4 NPT	5/9-18 UNF LH	34	14	9	15/16"	0.6555" / 0.6553"	5
	1109-024-212	G 1/4 Axial	53	129	G 1/4	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1109-044-212	1/4 PT Axial	53	129	1/4 PT	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1109-013-196	1/4 NPT Radial	53	138	1/4 NPT	5/9-18 UNF LH	34	14	9	15/16"	0.6555" / 0.6553"	5
	1109-023-212	G 1/4 Radial	53	135	G 1/4	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5
	1109-043-212	1/4 PT Radial	53	135	1/4 PT	M16 x 1.5 LH	31	11	9	24	17.993 / 17.988	5