

DEUBLIN

1116 Series “Closed Seal” Rotary Unions for Coolant Service

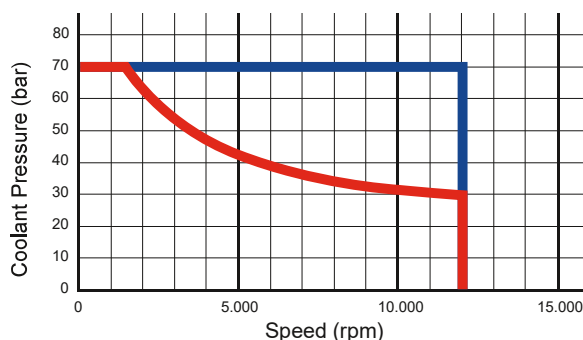
- Single passage for coolant or MQL
- Dry-running cycles and compressed air applications under rotation possible depending on the model (see *, **)
- Closed seals for transfer line and similar applications
- Full-flow design has no obstructions to trap swarf or debris
- Bearing-supported with threaded rotor for easy installation
- Labyrinth system and large vents to protect ball bearings
- Balanced mechanical seals made from silicon carbide for long life even under difficult operating conditions
- Anodised aluminium housing resists corrosion

Operating Data

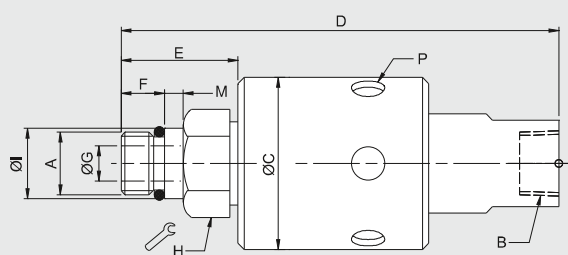
Media	Water-based Coolant	
	MQL (oil mist) up to 10 bar (145 psi)	
Filtration	ISO 4406:2017 Class 17/15/12, max. 60 micron	
Max. Speed	12.000 min ⁻¹	12,000 rpm
Max. Pressure	70 bar	1,015 psi
Max. Flow	82 l/min	21.6 gpm
Max. Temperature	71 °C	160 °F



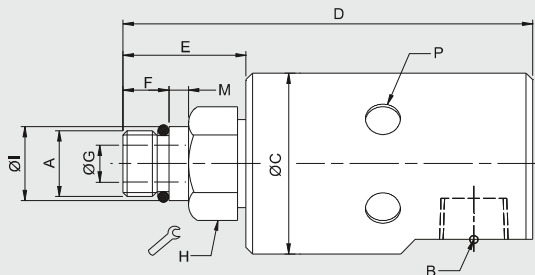
DO NOT RUN DRY



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
Axial	1116-048-059***	1/4 NPT	44	115	9	5/8-18 UNF LH	33	14	9	24	16.649 / 16.644	5
	1116-048-463***	1/4 NPT	44	112	9	M16 x 1.5 LH	30	11	9	24	17.993 / 17.988	5
	1116-063-463*	G 3/8	44	112	9	M16 x 1.5 LH	30	11	9	24	17.993 / 17.988	5
	1116-319-248	Ø25 Counter Bore	44	105	3 x 9.5	3/8 NPT	30	16	—	24	—	—
	1116-485-463***	G 1/4	44	112	9	M16 x 1.5 LH	30	11	9	24	17.993 / 17.988	5
	1116-600-059	3/8 NPT	44	115	9	5/8-18 UNF LH	33	14	9	24	16.650 / 16.637	5
	1116-600-463	3/8 NPT	44	112	9	M16 x 1.5 LH	30	11	9	24	17.994 / 17.989	5
Radial	1116-610-463	G 3/8	44	112	9	M16 x 1.5 LH	30	11	9	24	17.993 / 17.988	5
	1116-090-059	3/8 NPT	44	105	9	5/8-18 UNF LH	33	14	9	24	16.649 / 16.644	5
	1116-090-463	3/8 NPT	44	102	9	M16 x 1.5 LH	30	11	9	24	17.993 / 17.988	5
	1116-516-463*	G 3/8	44	102	9	M16 x 1.5 LH	29	11	9	24	17.993 / 17.988	5
R.	1116-555-463	G 3/8	44	102	9	M16 x 1.5 LH	29	11	9	24	17.993 / 17.988	5
	1116-987-463**	G 3/8	44	102	9	M16 x 1.5 LH	30	11	9	24	17.993 / 17.988	5

* Also allowed for compressed air and defined dry run cycles with reduced operating data.

** Also allowed for operation with hydraulic, compressed air and defined dry run cycles with reduced operating data. Please see page 21 multi-media application.

*** For selection of unions with 1/4 connection please contact Deublin engineering for operating data.

For further information please contact Deublin.