



DEUBLIN

Rotary Union

DEU-PLEX Air and Hydraulic Service, DN 8 – 20

- Duoflow design
- Tandem model as triple passage design
- Self-supported Rotary Union
- Composite bearing
- Vent holes between passages
- Carbon-filled teflon seals
- Hardened sealing surface
- Aluminium housing
- Steel rotor

Operating Data

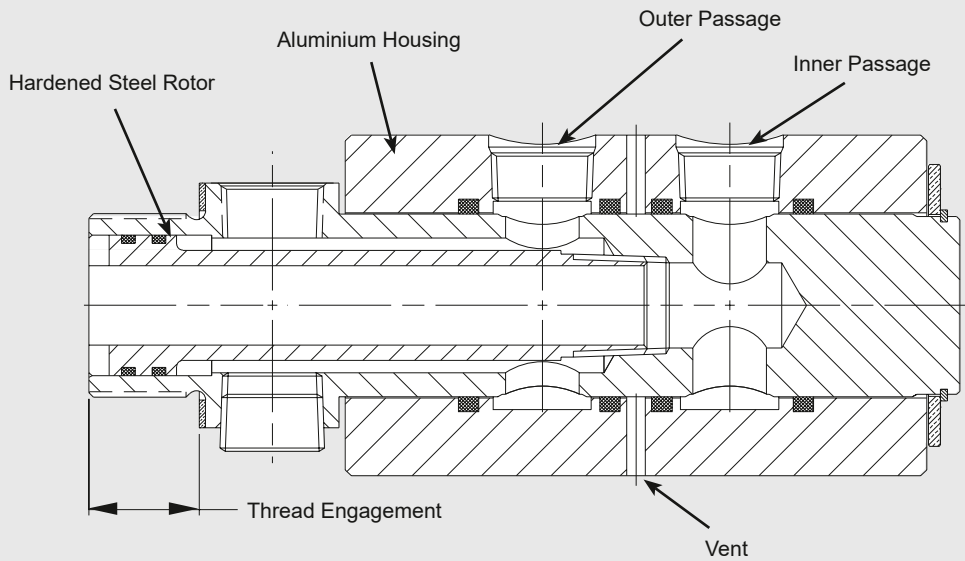
Max. Air Pressure		150 PSI	10 bar
Max. Hydraulic Pressure*		3,050 PSI	210 bar
Max. Speed (short-term)*		250 rpm	250 min ⁻¹
Torque for	Model	1690	7 ft.lbs 9.5 Nm
		1790	18 ft.lbs 24 Nm
		1890	22 ft.lbs 29.8 Nm
Max. Temperature		239 °F	115 °C

For higher temperature please consult Deublin.

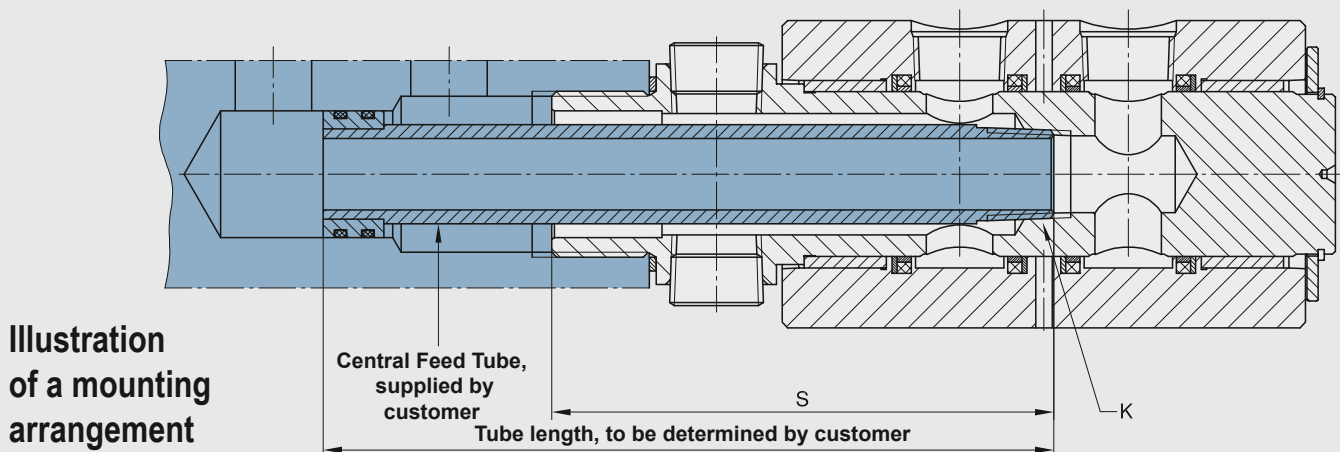
* Operation at max. pressure combined with max. speed is not permissible

For further information please contact Deublin or your local representative.

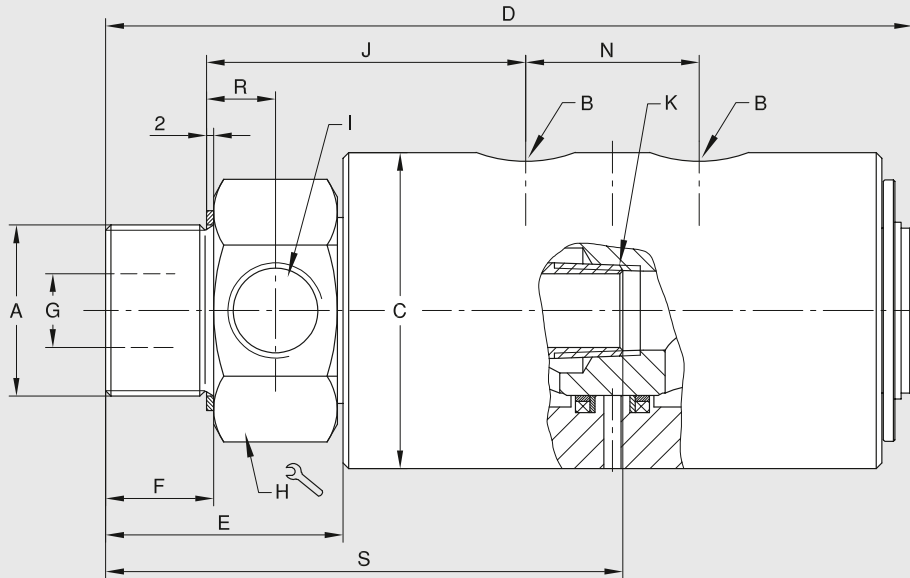
Models with inner rotors



Models without inner rotors can be used for coaxial feed applications as shown below.



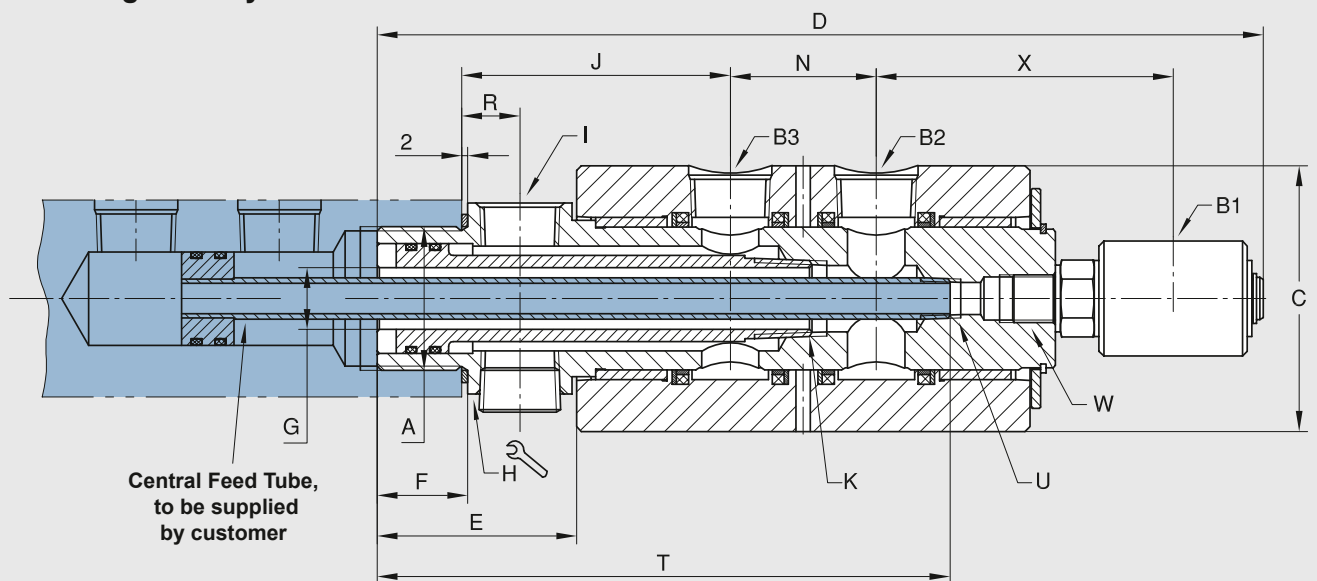
Duoflow Rotary Union



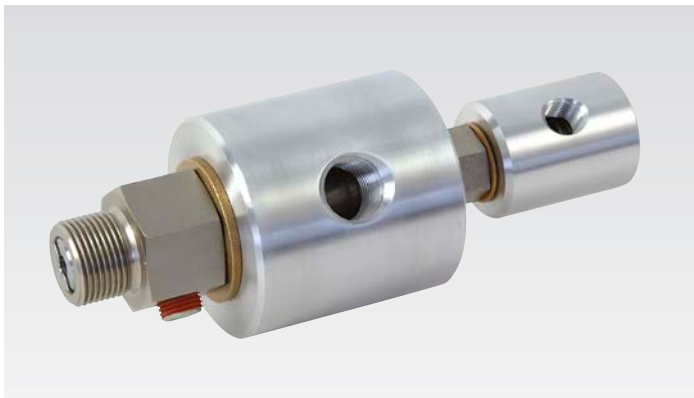
DN	B NPT	Ordering-No	A Rotor Connections		C Ø	D	E	F	G Ø	H H	I NPT	J	K NPT	N	R	S	kg
2 x 8	1/4	1690-000-102*	1 NPT		66.4	150	55	28.6	22	46	1/4	66.6	1/4	28.6	23	97.4	1.6
	1/4	1690-000-105*	G 1	RH	66.4	150	55.5	18	8	46	1/4	68	1/4	29.5	19	97.4	1.6
	1/4	1690-000-115	1 NPT		66.4	150	55	28.6	7.9	46	1/4	66	-	29.5	23	-	1.6
	1/4	1690-000-168	G 1	RH	66.4	150	55.5	18	17.5	46	1/4	68	1/4	29.5	19	-	1.6
2 x 15	1/2	1790-001-101*	1 1/4 NPT	RH	76	208	63	28	27	55	1/2	85	1/2	42	18	-	3.1
	1/2	1790-001-112*	G 1 1/4	RH	76	208	63	28	27	55	1/2	85	1/2	42	18	133.2	3.1
	1/2	1790-001-113	1 1/4 NPT	RH	76	208	63	28	16	55	1/2	85	1/2	42	18	133.2	3.1
	1/2	1790-001-114	G 1 1/4	RH	76	208	63	28	16	55	1/2	85	1/2	42	18	-	3.1
2 x 20	3/4	1890-500	1 1/2 NPT	RH	87.6	225.4	66.6	30	20.6	65	3/4	104	1/2	49	18	144.5	4.4
	3/4	1890-560	G 1 1/2	RH	87.6	226	66	30	20.6	65	3/4	89	3/4	49	19.5	-	4.4
	3/4	1890-570*	G 1 1/2	RH	87.6	226	66	30	34.9	65	3/4	89	3/4	49	19.5	149.4	4.2
	3/4	1890-581	G 1 1/2	RH	87.6	225.4	66.6	30	20.6	65	3/4	69.9	3/4	48.9	19.2	144.5	4.2

*These models are delivered without inner rotors.

Triple Passage Rotary Union



DN	B1 x B2 x B3 NPT	Ordering-No	A Rotor Connections		C Ø	D	E	F	G Ø	H H	I NPT	J	K NPT	N	R	T	U NPT	W	X	kg	
8/20/20	1/4 x 3/4 x 3/4	1890-580	G 1 1/2	RH	88.5	293	67	30	20.6	65	3/4	89	3/4	48.5	19.5	190	1/4	5/8-18 UNF	RH	98	4.7



DEUBLIN

Rotary Union

Air, Hydraulic Oil and Vacuum Service, DN 8 and 15

- Monoflow and duoflow (Tandem) design
- Self-supported Rotary Union
- No interpassage leakage on the duoflow design
- Hardened sealing surface
- Oilite bearing
- Aluminium housing
- Steel rotor

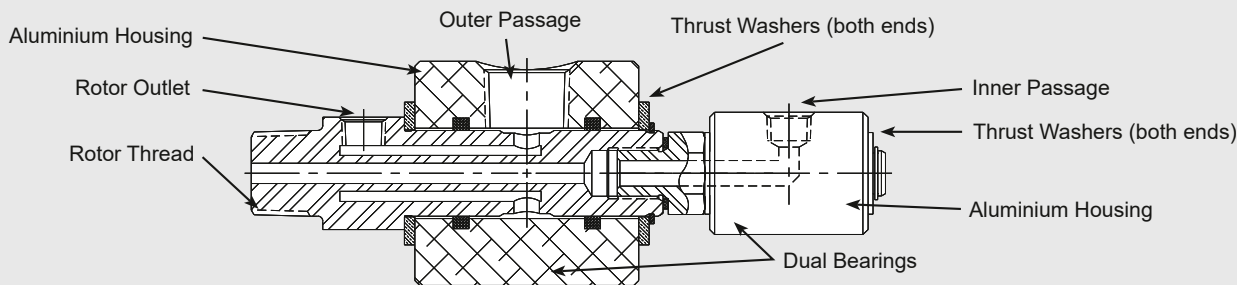
Operating Data

Max. Air Pressure	150 PSI	10 bar
Max. Vacuum	28 "Hg	6,75 kPa
Max. Hydraulic Pressure*	3,000 PSI	207 bar
Max. Speed (short-term)*	250 rpm	250 min ⁻¹
Max. Temperature	250 °F	121 °C

For further information please contact Deublin or your local representative.

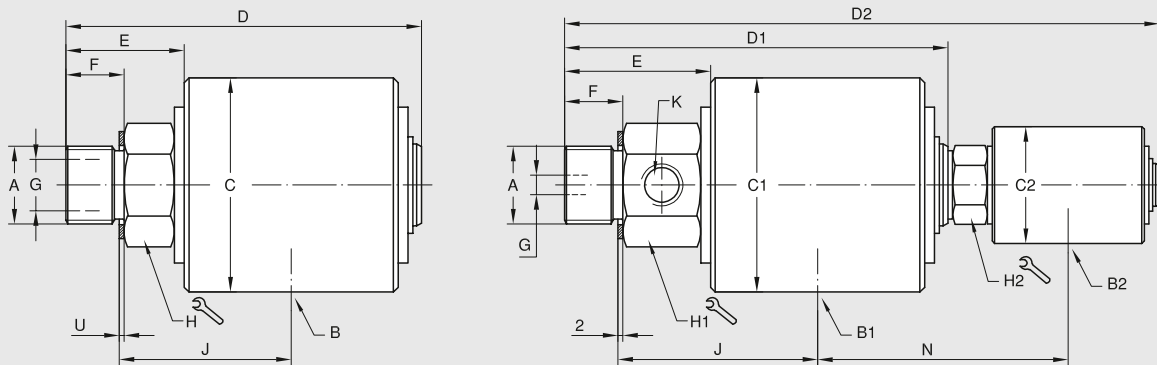
For higher temperature please consult Deublin.

* Operation at max. pressure combined with max. speed is not permissible



Monoflow Rotary Union

Tandem



Monoflow Rotary Union

DN	B NPT	Ordering-No	A Rotor Connections	C Ø	D	E	F	G Ø	H	J	U	kg
8	1/4	17-025-012	5/8-18 UNF RH	38	83.3	29	16	8	22	39	1.5	0.3
	1/4	17-025-039	G 3/8 RH	38	83.3	29	16	8	22	39	1.5	0.3
	1/4	17-025-041	3/8 NPT RH	38	83.3	29	16	8	22	46	-	0.3
	1/4	17-025-045	3/8 NPT (FEM) RH	38	75.4	21	-	8	22	38	-	0.3
	1/4	17-025-046	M16 x 2 RH	38	83.3	29	16	8	22	39	1.5	0.3
15	1/2	21-001-101	3/4 NPT RH	70	119	41.7	22	16	36	66.4	-	1.2
	1/2	21-001-122	G 3/4 RH	70	116	38.7	19	16	36	56.2	1.6	1.2

Duoflow Rotary Union (Tandem)

DN	B1 x B2 NPT	Ordering-No	A Rotor Connections	C1 Ø	C2 Ø	D1	D2	E	F	G Ø	H1	H2	J	K NPT	N	kg
15 x 8	1/2 x 1/4	2117-001-103	1-14 UNS RH	70	38	125	194	48	19	6.4	36	22	65	1/4	82	1.5
	1/2 x 1/4	2117-001-105	G 3/4 RH	70	38	125	194	48	19	6.4	36	22	66	1/4	81	1.5
	1/2 x 1/4	2117-001-109	3/4 NPT	70	38	128	194	51	22	6.4	36	22	71	1/4	82	1.5

DEUBLIN

Rotary Union 1379 and 1479 Series 4-Passage for Various Media

- Four independent passages for applications such as clamping and unclamping, work piece or tool sensing, and spindle cooling
- Vent between passages 2 and 3 allows use of two different media without cross contamination. For example, air in passages 1 and 2 and hydraulic oil in passages 3 and 4
- Stainless steel and brass components resist corrosion
- Hardened chrome sealing surface and elastomer-energized seals
- Dual, widely spaced ball bearings absorb large side loads

For further information please contact Deublin or your local representative.

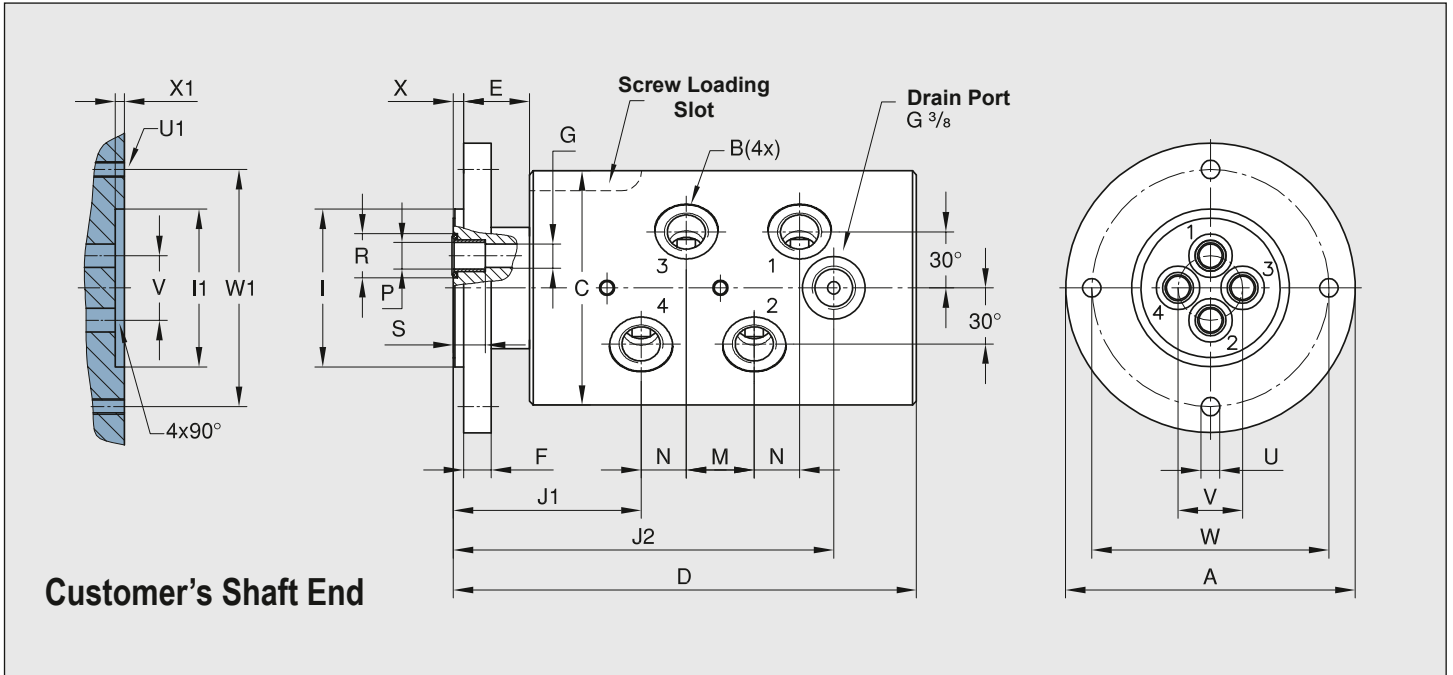
* Operating conditions vary depending on the application and must be adjusted so as not to exceed the maximum union housing temperature rating of 90 °C / 194 °F.



Operating Data

Max. Air Pressure		150 PSI	10 bar
Max. Hydraulic Pressure (rotating)*		850 PSI	60 bar
Max. Hydraulic Pressure (very slow rotating)		3,600 PSI	250 bar
Max. Vacuum		28 "Hg	6,75 kPa
Max. Speed		250 rpm	250 min ⁻¹
Max. Flow per Passage	1379 series	14 gpm	53 l/min
	1479 series	28.5 gpm	108 l/min
Max. Temperature		175 °F	80 °C

For higher temperature please consult Deublin.



4-Passage Rotary Union

DN	B	Ordering No	A Ø	C Ø	D	E	F	G Ø	I ØPT	I1 ØPT	J1	J2	M	N	P Ø	R Ø	S	U Ø	U1	V Ø	W Ø	X	X1	W1 Ø	kg
4 x 10	G 3/8	1379-160	110	88	176	25	11	9	60.000 59.981	60.060 60.030	71	145	26	17	12	16.7	12	7.2	M6 4x90°	24.5	90	4	3.5	90	7.6
4 x 10	3/8 NPT	1379-460	110	88	176	25	11	9	60.000 59.981	60.060 60.030	71	145	26	17	12	16.7	12	7.2	M6 4x90°	24.5	90	4	3.5	90	7.6
4 x 10 + centr. Pass	G 3/8	1379-860	110	88	176	25	11	9	60.000 59.981	60.060 60.030	71	145	26	17	12	16.7	12	7.2	M6 4x90°	24.5	90	4	3.5	90	7.6
4 x 15	G 1/2	1479-100	130	108	202	25	13.5	13	75.000 74.981	75.060 75.030	79.5	172	31	23	13	19.7	15	9	M8 4x90°	29	110	4	3.5	110	12.7
4 x 15	1/2 NPT	1479-400	130	108	202	25	13.5	13	75.000 74.981	75.060 75.030	79.5	172	31	23	13	19.7	15	9	M8 4x90°	29	110	4	3.5	110	12.7
4 x 15 + centr. Pass.	G 1/2	1479-800	130	108	202	25	13.5	13	75.000 74.981	75.060 75.030	79.5	172	31	23	13	19.7	15	9	M8 4x90°	29	110	4	3.5	110	12.7



DEUBLIN

Rotary Union

DEU-PLEX Air Service, DN 10

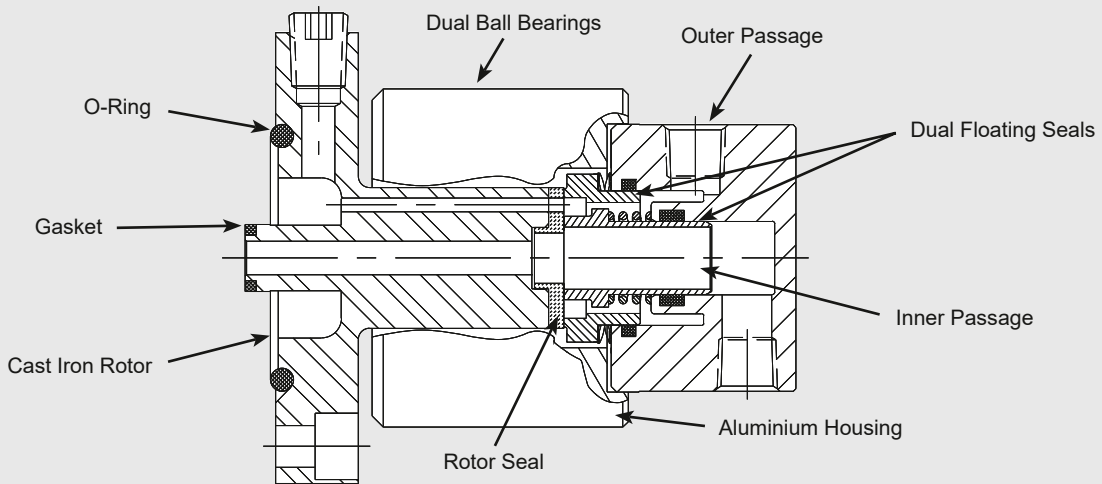
- Duoflow design
- Self-supported Rotary Union
- Flange rotor
- Radial housing connections
- Low torque
- Double-balanced mechanical seal
- Full-media flow
- Oiler for relubrication (3 – 5 drops/month)
- Aluminium housing
- Cast iron rotor
- Lubrication Guide page 43

Operating Data

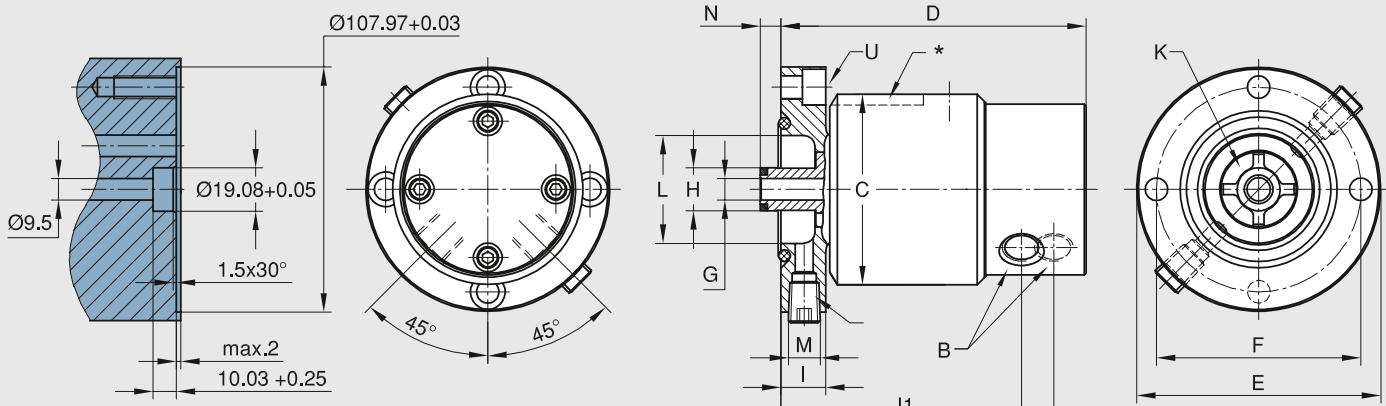
Max. Air Pressure	150 PSI	10 bar
Max. Vacuum	28 "Hg	6,75 kPa
Max. Speed	1,500 rpm	1.500 min ⁻¹
Max. Temperature	250 °F	121 °C

For higher temperature please consult Deublin.

For further information please contact Deublin or your local representative.



Customer's Shaft End



* Screw loading Slot
U = Clearance for Socket Head Cap Screws (DIN 912)

DN	B NPT	Ordering-No	C Ø	D	E ØPT	F Ø	G mm ²	H Ø	I	J ₁	J ₂	K mm ²	L Ø	M NPT	N	U Screws DN 912	kg
2 x 10	3/8	1500-000	84	135	108.0 107.9	90.5	71	19.05 19.00	20	106	121	150	48	2 x 1/4	11.1	3/8-16	3
	3/8	1500-250	84	135	107.95 107.92	90.5	71	19.05 19.00	20	106	121	150	48	2 x 1/4	11.2	M10	3

DEUBLIN

Rotary Union

DEU-PLEX Air and Hydraulic Oil Service, DN 15

- Duoflow design
- Self-supported Rotary Union
- Radial and axial housing connections
- Full-media flow
- Oiler for relubrication (3 – 5 drops/month)
- Aluminium housing
- Cast iron flange rotor
- Double-balanced mechanical seal – standard: Carbon Graphite/Ceramic
- Lubrication Guide page 43



Operating Data

Max. Air Pressure ¹	(1590)	150 PSI	10 bar
Max. Hydraulic Pressure ²	(1579)		
Outer passage		500 PSI	34 bar
Inner passage		1,020 PSI	70 bar
Max. Speed		1,500 rpm	1,500 min ⁻¹
Max. Temperature		250 °F	121 °C

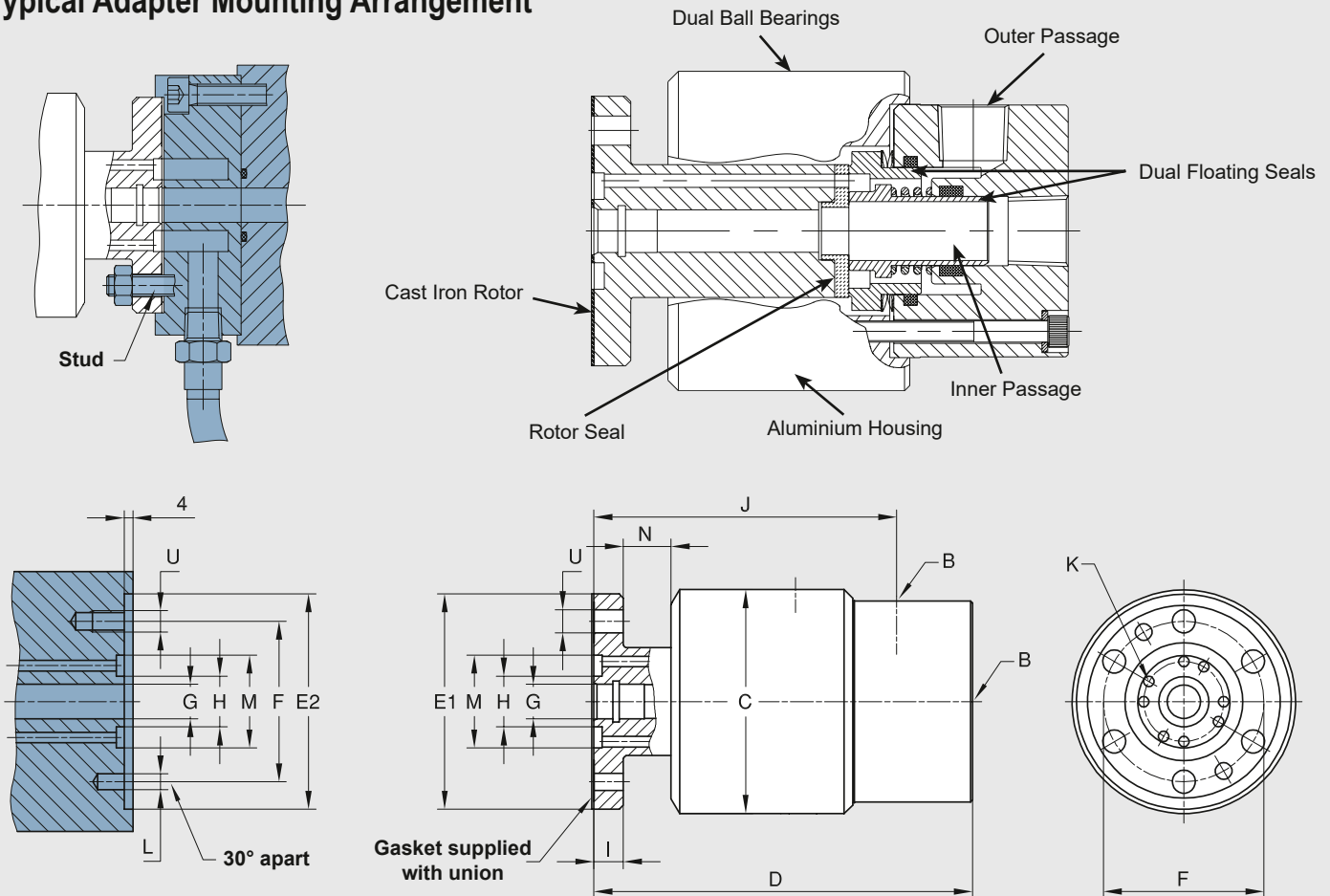
For higher temperature please consult Deublin.

For further information please contact Deublin or your local representative.

¹ Only one passage should be pressurized at a time.

² Operation at max. pressure combined with max. speed is not permissible. For the higher pressure use inner passage only

Typical Adapter Mounting Arrangement



DN	B NPT	Ordering-No	Media	C Ø	D	E1 ØPT	E2 Ø	F Ø	G mm ²	H Ø	I	J	K mm ²	L Ø dowel pin	M Ø	N	U Ø	kg
2 x 15	1/2	1579-000	Hydraulic Oil	84	143	81.000 80.988	81.050 81.020	60.3	126	19	11	114	100	6	35	18	8.7 M8	2.5
	1/2	1579-041	Hydraulic Oil	84	143	81.000 80.988	81.050 81.020	60.3	126	19	11	114	100	6	35	18	8.7 M8	2.5
	1/2	1579-074	Hydraulic Oil	96	143	81.000 80.988	81.050 81.020	60.3	126	19	11	113	100	6	35	12	8.7 M8	3.1
	1/2	1590-000	Air	84	143	81.000 80.988	81.050 81.020	60.3	126	19	11	114	100	6	35	18	8.7 M8	2.5