

Media

Filtration

Maximum Speed Maximum Pressure Maximum Flow Maximum Temperature Water-based Coolant MQL (oil mist) up to 10 bar (145 psi) ISO 4406 Class 17/15/12, max. 60 micron

71°C

15,000 min⁻¹ 15,000 rpm 105 bar 1,520 psi 20 1/min 5.3 gpm

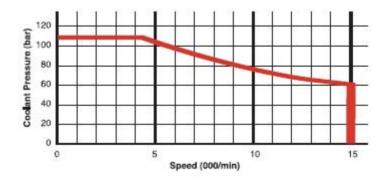
160°F



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





Media

Filtration

Maximum Speed Maximum Pressure Maximum Flow

Maximum Temperature

Water-based Coolant

20,000 min-1 See chart

160°F

82 I/min 21.6 gpm 24.3 I/min 6.4 gpm

Standard High Pressure (HP)

MQL (oil mist) up to 10 bar (145 psi) ISO 4406 Class 17/15/12. max, 60 micron

20,000 rpm

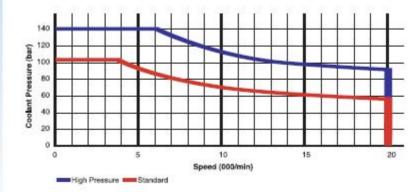
71°C

NO AIR PRESSURE WITH ROTATION

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 chips or debris
- Bearing-supported with threaded rotor for easy installation
- Dual ABEC 7 (ISO class P4) angular contact ball bearings
- Labvrinth 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





Media

Filtration

Maximum Speed Maximum Pressure Maximum Flow Maximum Temperature Water-based Coolant MQL (oil mist) up to 10 bar (145 psi) ISO 4406 Class 17/15/12. max. 60 micron

12.000 min⁻¹ 12,000 rpm 70 bar 1,015 psi 82 I/min

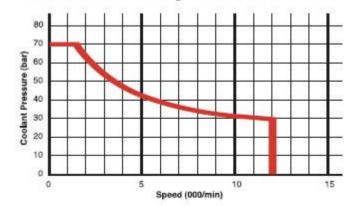
21.6 apm 160°F 71°C



DEUBLIN

1116 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





Maximum Water Pressure Maximum Speed 150 PSI 100 RPM 10 bar 100/min

Maximum Temperature

250°F

>250°F consult DEUBLIN

DEUBLIN 2400 Series Rotating Union

- Monoflow and duoflow design
- In-the-shaft mounted
- Self-supported rotating union
- Flanged housing or mounted with retaining plate
- · Balanced mechanical seal
- Seal combination: Silicon Carbide/Silicon Carbide
- Brass housing and elbow
- Stainless steel rotor and supply pipe
- Engineered sleeve bearing
- Full-media flow
- Easily field repairable



Model	55-555	750 PSI	50 bar	
Model	655	600 PSI	41 bar	
Maximum Saturated Steam Pressure (Intermittent)			1 bar	
SACSOCK I	KTO BURKS ST	100 PSI	6.6 bar	
Model	55-555	1,500 RPM	1,500/min	
Model	655	750 RPM	750/min	
ids				
Model	55-255	3,500 RPM	3,500/min	
Model	355	3,000 RPM	3.000/min	
Model	525-555	2,500 RPM		
Model	655	750 RPM	750/min	
	Model ssure (In Model Model ds Model Model Model	Model 655 ssure (Intermittent) Model 55-555 Model 655 ids Model 55-255 Model 355 Model 525-555	Model 655 600 PSI 15 PSI 100 P	Model 655 600 PSI 41 bar ssure (Intermittent) 15 PSI 1 bar 100 PSI 6.6 bar 100 PSI 6.6 bar Model 55-555 1,500 RPM 750/min rds Model 55-255 3,500 RPM 3,500/min Model 355 3,000 RPM 3,000/min Model 525-555 2,500 RPM 2,500/min

DEUBLIN

General Purpose 55 Series Unions

- . Monoflow and duoflow design
- Self-supported rotating union
- Radial housing connection
- Balanced mechanical seal
- 3 vent holes
 - Forged brass housing
 - · Stainless steel rotor
 - Special options: threaded vent holes, low torque design
- Lubrication Guide page 55



		-		
Maximum Water Pr	essure	150 PSI	10 bar	
Maximum Speed		750 RPM	750/min	
Torque for	Model 6200	4 ft.lbs	5.4 Nm	
	Model 6250	7 ft.lbs	9.5 Nm	
	Model 6300	8 ft.lbs	10.9 Nm	
	Model 6400	10 ft.lbs	13.6 Nm	

Maximum Temperature

250°F

>250°F consult DEUBLIN

DEUBLIN

2", 2½", 3" & 4" Cartridge Water Unions

- Monoflow and duoflow design
- Self-supported rotating union
- Radial housing connection
- · Balanced mechanical seal
- Seal combinations: Carbon Graphite/Tungsten Carbide - standard Silicon Carbide/Tungsten Carbide - E.L.S.
- · Steel-banded floating seal
- Easy and quick replacement of sealing components
- · Full-media flow
- Vent slots
- Cast iron housing
- Steel rotor flanged/threaded
- Lubrication Guide page 55



 Maximum Saturated Steam Pressure[®]
 150 PSI
 10 bar

 Maximum Saturated Steam Temperature
 365°F
 185°C

 Maximum Hot Oil Pressure[®]
 100 PSI
 7 bar

 Maximum Speed[®]
 400 RPM
 400/min

Maximum Hot Oil Temperature

450°F

>450°F consult DEUBLIN

DEUBLIN

9000 Series Steam and Hot Oil Unions

- · Monoflow and duoflow design
- Self-supported rotating union
- Spherical Carbon Graphite seal
- · Seal wear indicator allows preventive maintenance
- · 2 torque lugs on the housing
- · Nickel-plated cast iron housing
- · Steel rotor, nickel-plated for steam service



Operat	ing Data	
Maximum Air Pressure	150 PSI	10 bar
Maximum Vacuum	28" Hg	6.7 kPa
Maximum Hydraulic Pressure	Table 2015	
Model 250-094	1,000 PSI	70 bar
Model 355-021	1,000 PSI	70 bar
Model 452-000	750 PSI	50 bar
Maximum Speed NPT Threads	1,500 RPM	1,500/min
Maximum Speed Straight Threads		
Model 250-094	3,500 RPM	3,500/min
Model 355-021	3,000 RPM	3,000/min
Model 452-000	2,500 RPM	2,500/min
Maximum Temperature	250°F	120°C

DEUBLIN

¾" to 1½" Air-Hydraulic Unions

- · Monoflow design
- · Self-supported rotating union
- · Radial housing connection
- · Balanced mechanical seal
- Seal combinations: Carbon Graphite/Hardened Tool Steel or Carbon Graphite/Ceramic
- · Felt oiler in seal cavity for air service
- · Oiler for relubrication (3 5 drops/month)
- · Low torque
- · Aluminum housing
- · Stainless steel or steel rotor (respective of model)
- Lubrication Guide page 55



Opera Contract of the Contract	ting Data	
Maximum Air Pressure	150 PSI	10 bar
Maximum Vacuum	28" Hg	6.7 kPa
Maximum Hydraulic Pressure	126513650	
Model 1005	1,000 PSI	70 bar
Model 1102	1,000 PSI	70 bar
Model 1115	500 PSI	34 bar
Model 1205	750 PSI	50 bar
Model 2200 [©]	1,000 PSI	70 bar
Maximum Speed NPT Threads	1,500 RPM	1,500/min
Maximum Speed Straight Threads	3,500 RPM	3,500/min
Maximum Temperature	250°F	120°C

DEUBLIN

1/8" to 1/8" Air-Hydraulic Unions

- · Monoflow design
- · Self-supported rotating union
- · Radial housing connection
- · Balanced mechanical seal
- Seal combinations:
 Carbon Graphite/Hardened Tool Steel or Carbon Graphite/Silicon Carbide
- · Felt oiler in seal cavity for air service
- Oiler for relubrication (3 5 drops/month)
- · Low torque
- · Weight-optimized design
- Aluminum housing
- . Bearings lubricated for life



	Opera	iting Data		
Maximum Air	Pressure	150 PSI	10 bar	
Maximum Va	cuum Pressure	28" Hg	6.7 kPa	
Maximum Hy	draulic Pressure®	3,000 PSI	204 bar	
Maximum Sp	eed [®]	250 RPM	250/min	
Torque for	Model 1690	7 ft.lbs	9.5 Nm	
	Model 1790	18 ft.lbs	24 Nm	
	Model 1890	22 ft.lbs	29.8 Nm	
Maximum Ter	mperature	250°F	120°C	

DEUBLINDeu-Plex Low Speed Air-Hydraulic Unions

- · Duoflow design
- Self-supported rotating union
- Composite bearing
- · Vent holes between passages
- Special seals
- · Hardened sealing surface
- Aluminum housing
- · Steel rotor

Optional:

Tandem model as triple-passage design



DEUBLIN

H Series Steam and Hot Oil Unions

- Monoflow and duoflow design
- Self-supported rotating union
- Convex seal ring better suited to handle mechanical and thermal shock
- Two widely-spaced graphite bearings
- H57 H127 optional with sight glasses in the end cap for visual inspection of condensate removal
- · Seal wear indicator allows preventive maintenance
- · Flanged or threaded rotor available
- · Cast iron housing
- Stainless steel rotor
- For steam and hot oil applications in paper, plastic and textile industries and open gear paper machines

Operating Data 3/4" – 2"

 Maximum Saturated Steam Pressure
 150 PSI
 10 bar

 Maximum Speed Saturated Steam Service
 400 RPM
 400/min

 Maximum Saturated Steam Temperature
 365°F
 185°C

 Maximum Hot Oil Pressure
 100 PSI
 7 bar

 Maximum Speed Hot Oil Service
 400 RPM
 400/min

Maximum Hot Oil Temperature 450°F >450°F consult **DEUBLIN**

Operating Data 2 1/2" – 5"

450°F

Maximum Saturated Steam Pressure 150 PSI 10 bar Maximum Speed Saturated Steam Service 180 RPM 180/min Maximum Saturated Steam Temperature 365 °F 185 °C

Maximum Hot Oil Pressure 100 PSI 7 bar Maximum Speed Hot Oil Service 350 RPM 350/min

Maximum Hot Oil Temperature

>450°F consult DEUBLIN



Maximum Saturated Steam Pressure Maximum Speed Maximum Temperature

250 PSI 400 RPM 400°F

200°C

17 bar

400/min

DEUBLIN

HPS Series for High Pressure Steam Service in Corrugators

- Monoflow and duoflow design
- · Self-supported rotating union
- Seals and bearings made of special Carbon Graphite
- . Convex seal ring better suited to handle mechanical and thermal shock
- · External mechanism to adjust siphon pipe through end cap
- Nickel-plated front and rear end cap
- Nickel-plated ductile iron housing
- Stainless steel spring
- Heavy duty steel rotor design
- Dual bearings for extended service life