



1CVB2



1CVE6



35PP39



1CVF7

## Rotary Unions, Cartridges, and Joint Elbows



Transfer steam and fluids to rotating drums or rolls to control surface temperatures. Unions and elbows also transfer air or hydraulic fluid to moving components, and add fluids to mixers while in motion. All models have NPT connection, except Rotary Union Cartridges.

### 9000 SERIES ROTARY UNIONS

- Max. speed: 700 rpm
- Max. pressure: 250 psi water; 150 psi steam (except 35PP27 to 35PP38 are 175 psi); 100 psi hot oil
- Max. temp.: 375°F water, steam, hot oil (except 35PP27 to 35PP38 are 378°F steam and 600°F hot oil)

Bellows-type seal resists hangup in contaminated media. Dual-flow joints accept NPT threaded stationary pipe.

### 5000 SERIES ROTARY UNIONS

- Max. speed: 1000 rpm NPT; 550 rpm air
- Max. pressure: 750 psi water; 120 psi steam; 100 psi hot oil; 300 psi air
- Max. temp.: 300°F water; 350°F steam; 395°F hot oil

Corrosion-resistant unions have 2 precision bearings with fluorocarbon O-rings. Dual flow unions require rotary joint elbow.

### 5000 SERIES ROTARY JOINT ELBOWS

- Max. pressure: 750 psi water; 120 psi steam; 100 psi hot oil; 35PP39 is also 300 psi air
- Max. temp.: 300°F water; 350°F steam; 395°F hot oil

Convert Duff-Norton Rotary Unions from single to dual flow.

Size	Flow	Body Dia.	Left Hand Item No.	Right Hand Item No.
<b>9000 Series Rotary Unions</b>				
1/4"	Single	1.75"	35PP27	1CVB2
3/8"	Single	1.75"	35PP29	35PP28
1/2"	Dual	2.375"	35PP35	1CVC3
	Single	2.375"	35PP30	1CVB3
3/4"	Dual	2.5"	35PP36	1CVC4
	Single	2.5"	1CVB4	1CVB5
1"	Dual	3"	1CVC5	1CVC6
	Single	3"	1CVB6	1CVB7
1 1/4"	Dual	3.75"	—	1CVC7
	Single	3.75"	35PP32	35PP31
1 1/2"	Single or Dual	3.75"	35PP37	—
	Dual	4.125"	1CVC8	1CVC9
1 3/4"	Single	4.125"	—	1CVB8
	Single or Dual	4.125"	35PP33	—
2"	Dual	5.875"	—	1CVD1
	Single	5.875"	35PP34	1CVB9
2 1/2"	Single or Dual	4.375"	—	35PP25
	Single or Dual	4.375"	35PP22	35PP21
3/4"	Single or Dual	1.5625"	35PP23	1CVC6
	Single or Dual	1.5625"	35PP24	1CVC7
1/2"	Single or Dual	2.0625"	35PP24	1CVC7
	Single or Dual	2.3125"	1CVC8	1CVC9
1"	Single or Dual	3.125"	1CVF1	1CVF2
	Single or Dual	3.5"	1CVF3	1CVF4
1 1/4"	Single or Dual	4"	—	1CVF6
	Single or Dual	4.375"	35PP26	—
2"	Single or Dual	5.875"	35PP38	—

Size	Tube Outside Dia.	Item No.
<b>5000 Series Rotary Joint Elbows</b>		
1/2 in	1/2 in	1CVH1
3/8 in	1/4 in	1CVG8
1/2 in	1/8 in	1CVG9
1 in	1/4 in	1CVH2
1 1/4 in	1/2 in	1CVH3
1 1/2 in/2 in	1/2 in	1CVH4
2 in	3/4 in	35PP39
<b>For Use With</b>		
<b>Rotary Union Cartridges</b>		
<b>For 9000 Series Rotary Unions</b>		
1CVB2 Rotary Union		1CVD3
1CVB9, 1CVD1 Rotary Unions		1CVB3
1CVC7 Rotary Union		1CVD9
<b>For 5000 Series Rotary Unions</b>		
1CVC6 Rotary Union		1CVF7
1CVC7 Rotary Union		1CVF8
1CVC9 Rotary Union		1CVG1
1CVF2 Rotary Union		1CVG3



40F008



40E990



40E997



40E993



40E973



40E981



## Rotary Unions/Swivels

304 stainless steel construction for maintenance-free performance and longer life. Suitable for use in conveyor belt cleaning, pipe cleaning, spray parts washers, hose reels, tunnel wash systems, and high-pressure cleaning systems.

Size	Max. Temp.	Max. Pressure	Max. Speed	Body Dia.	Item No.
<b>Manual Rotation</b>					
<b>DGE 90 Deg Medium Single Bearing System Swivel, O-Ring Seal</b>					
Inlet 1/2 in NPTF - Outlet 1/2 in NPTF	250°F	4000 psi	30 rpm	1.65 in	40F008
Inlet 3/4 in NPTF - Outlet 3/4 in NPTM	250°F	4000 psi	30 rpm	1.97 in	40F007
<b>DGE Inline Medium Single Bearing System Swivel, O-Ring Seal</b>					
Inlet 1 1/4 in NPTF - Outlet 1 1/4 in NPTM	250°F	4000 psi	30 rpm	2.36 in	40F006
<b>DGS Inline + 90° Dual Bearing System Swivel, O-Ring Seal</b>					
Inlet 1/2 in NPTF - Outlet 1/4 in NPTF	250°F	4000 psi	30 rpm	0.86 in	40E990
Inlet 1/2 in NPTF - Outlet 1/4 in NPTM	250°F	4000 psi	30 rpm	0.86 in	40E986
Inlet 1/4 in NPTF - Outlet 3/8 in NPTM	250°F	4000 psi	30 rpm	0.86 in	40E987
Inlet 3/8 in NPTF - Outlet 3/8 in NPTF	250°F	4000 psi	30 rpm	0.98 in	40E989
Inlet 3/8 in NPTF - Outlet 3/8 in NPTM	250°F	4000 psi	30 rpm	0.98 in	40E988
<b>DBV Inline Single Bearing System, Live, Swivel, O-Ring Seal</b>					
Inlet 1/2 in NPTM - Outlet 1/2 in NPTF	250°F	4000 psi	30 rpm	0.94 in	40E997
Inlet 1/2 in NPTM - Outlet 1/2 in NPTM	250°F	4000 psi	30 rpm	0.94 in	40E994
Inlet 3/4 in JICM - Outlet 3/4 in JICF	250°F	4000 psi	30 rpm	0.94 in	40E999
Inlet 3/8 in NPTF - Outlet 1/2 in NPTF	250°F	4000 psi	30 rpm	0.94 in	40E998
Inlet 3/8 in NPTM - Outlet 1/4 in NPTF	250°F	4000 psi	30 rpm	0.94 in	40E995
Inlet 3/8 in NPTM - Outlet 3/8 in NPTF	250°F	4000 psi	30 rpm	0.94 in	40E996
<b>DKS Swivel Coupling, Live</b>					
Inlet M22 x 1.5-F - Outlet 1/4 in NPTF	250°F	3600 psi	30 rpm	1.34 in	40E991
Inlet M22 x 1.5-F - Outlet 3/8 in NPTF	250°F	3600 psi	30 rpm	1.34 in	40E992
<b>VER Fittings</b>					
Inlet M22 x 1.5 M - Outlet 1/4 in NPTM	—	7300 psi	—	—	40E993
<b>WDBL 90° Dual Bearing System (Radial Ball Bearings) Swivel, O-Ring Seal</b>					
Inlet 3/8 in NPTM - Outlet 3/8 in NPTM	250°F	4000 psi	200 rpm	1.26 in	40E983
<b>WDC 90 Deg Dual Bearing System Swivel, O-Ring Seal</b>					
Inlet 1/2 in NPTF - Outlet 1/2 in NPTF	250°F	4000 psi	30 rpm	1.77 in	40F009
<b>WDCL 90° Dual Bearing System (Radial Ball Bearings) Swivel, O-Ring Seal</b>					
Inlet 1/2 in NPTF - Outlet 1/2 in NPTF	250°F	4000 psi	200 rpm	1.77 in	40E985
Inlet 1/2 in NPTF - Outlet 1/2 in NPTM	250°F	4000 psi	200 rpm	1.77 in	40E984
<b>WDG 90° Swivel, O-Ring Seal</b>					
Inlet 1/4 in NPTF - Outlet 3/8 in NPTM	200°F	2200 psi	30 rpm	1.77 in	40F004
Inlet 3/8 in NPTF - Outlet 1/2 in NPTF	200°F	2200 psi AT 200°F, 4000 psi AT 250°F	30 rpm	1.77 in	40F003
Inlet 3/8 in NPTF - Outlet 3/8 in NPTM	200°F	2200 psi	30 rpm	1.77 in	40F002
Inlet 3/8 in NPTF - Outlet 3/8 in NPTM	200°F	2200 psi	30 rpm	1.77 in	40F005
Inlet G1/4 in M - Outlet 3/8 in NPTF	250°F	4000*psi	30 rpm	1.26 in	40F001*

Size	Max. Temp.	Max. Pressure	Max. Speed	Body Dia.	Item No.
<b>WDRS High Flow 90 deg Dual Bearing System Swivel, O-Ring Seal</b>					
Inlet 1/2 in NPTF - Outlet 3/4 in NPTM	40°F To 180°F	150 - 3000 psi	130 rpm	1.97 in	40F010
<b>Self Rotating</b>					
<b>DGG, High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, O-Ring Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	90°F at 1000 rpm 250°F at 30 rpm	4000 psi	1,000 rpm	1.1 in	40E973
<b>DGG 90° High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, O-Ring Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	90°F at 1000 rpm 250°F at 30 rpm	4000 psi	1,000 rpm	0.98 in	40E974
<b>DGL High RPM, Triple Bearing System Swivel, O-Ring Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	90°F at 1000 rpm 250°F at 30 rpm	4000 psi	1,000 rpm	1.1 in	40E972
<b>DXF High RPM Triple Bearing System, W/Flange Swivel, Ceramic Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	40°F to 250°F	2500 psi	2,000 rpm	1.1 in	40E977
<b>DYG High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, Ceramic Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	40°F to 250°F	2500 psi	2,000 rpm	2.36 in	40E976
<b>DXL High RPM Triple Bearing System Swivel, Ceramic Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	40°F to 250°F	2500 psi	2,000 rpm	1.1 in	40E975
<b>DYCI High RPM Triple Bearing System, Reinforced, Carbide Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	250°F	5000 psi	2,000 rpm	2.36 in	40E980
<b>DYF High RPM Triple Bearing System, W/Flange Swivel, Carbide Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	250°F	4000 psi	2,000 rpm	2.36 in	40E979
<b>DYG High RPM Triple Bearing System, W/Bulkhead Fitting Swivel, Carbide Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	250°F	4000 psi	2,000 rpm	2.36 in	40E978
<b>DYT 90° High RPM Quadruple Bearing System Swivel, Carbide Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	250°F	5000 psi	2,000 rpm	2.36 in	40E982
<b>DYT High RPM Quadruple Bearing System Swivel, Carbide Seal</b>					
3/8 in F Inlet - Outlet G3/8 in Male	250°F	5000 psi	2,000 rpm	2.36 in	40E981

\* Without snap ring.

Size	For Use With	Includes	Item No.
1/4 in	1/4 in NW Mosmatic DY Series Rotary Unions/Swivels	1 - 0.5ml Thread Adhesive, 2 - Carbide Seals, 2 - O-Rings, 2 - Spring Washers, And 1 - Seal Tool	40E971