

DEUBLIN[®]

Engineered for Performance



**Rotary Unions and
Plane and Self-Aligning Swivel Joints**

DEUBLIN TYPE "C" & "CF" BRONZE



Water & Steam Duoflow Fixed Siphon

SPECIAL DESIGN FEATURES

- Two widely spaced Carbon Bearings provides greater support to the siphon pipe and hoses.
- Carbon Seal placed under compression add strength and shock resistance. Unions lasts longer.
- External seal wear indicator allows for planned maintenance reducing expensive downtime.
- All metal wear parts are bronze for excellent corrosion resistance.
- Sizes 1/2" to 3"

OPERATING DATA	BC-54065 SERIES			
	Steam		Water	
Media				
Temperature	+353°F	+178°C	+353°F	+178°C
Pressure Rating	125 psi	8.6 BAR	300 psi	20.6 BAR

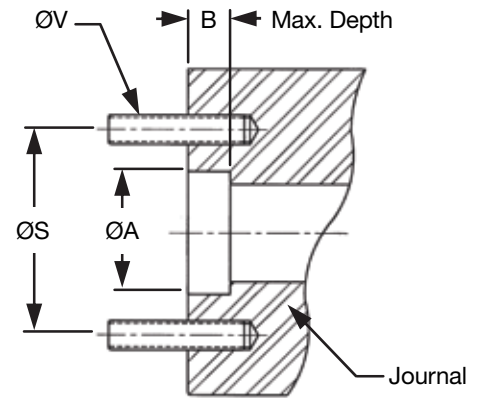
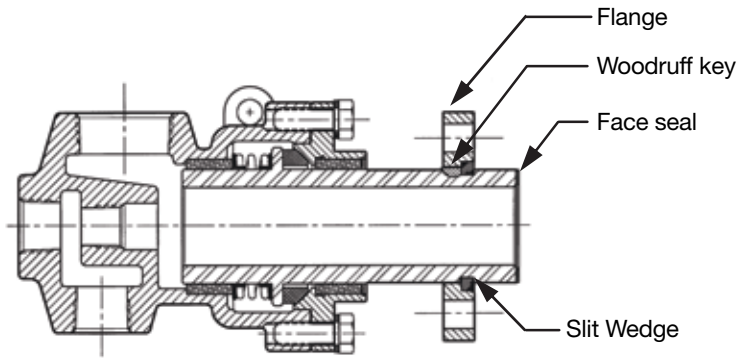
Type "CS" Bronze Trim Rotary Unions are ideal for a wide range of applications using low pressure steam & water. These unions feature an iron casing, bronze sleeve and end cap, stainless steel spring and spring guides.

The high density carbon seal under compression and widely spaced bearing surfaces assure exceptionally long service life without lubrication. A key maintenance feature is the external seal wear indicator.

Journal Dimensions

JOURNAL DIMENSIONS

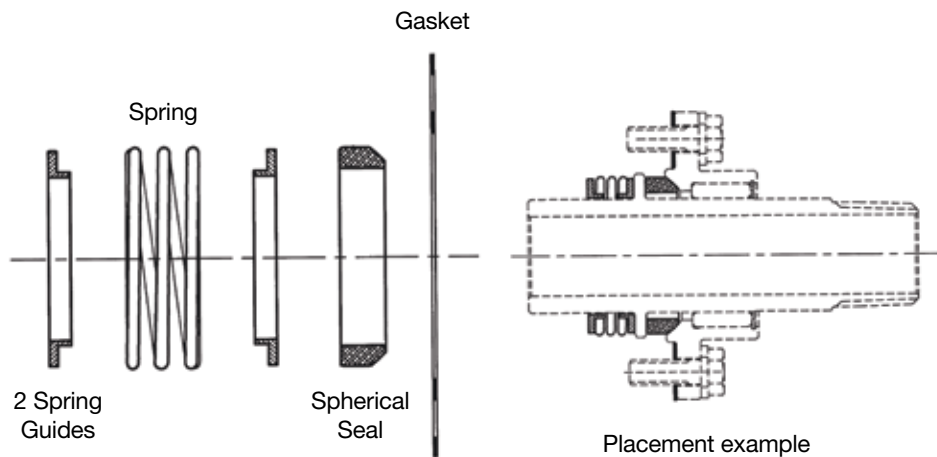
Union Size	CF Connection	
	ØA	B
1"	Ø1.408"-1.406"	1.052"
1 1/2"	Ø2.099"-2.096"	1.052"
2"	Ø2.724"-2.721"	1.052"
2 1/2"	Ø3.099"-3.096"	1.052"
3"	Ø3.724"-3.721"	1.052"



Service Kits

SERVICE KITS

Union Size	Part Number
1/2"	10-27274-00
3/4"	10-27275-00
1"	10-27276-00
1 1/4"	10-27277-00
1 1/2"	10-27278-00
2"	10-27279-00
2 1/2"	10-27280-00
3"	10-27281-00



DEUBLIN BC-54065 Series

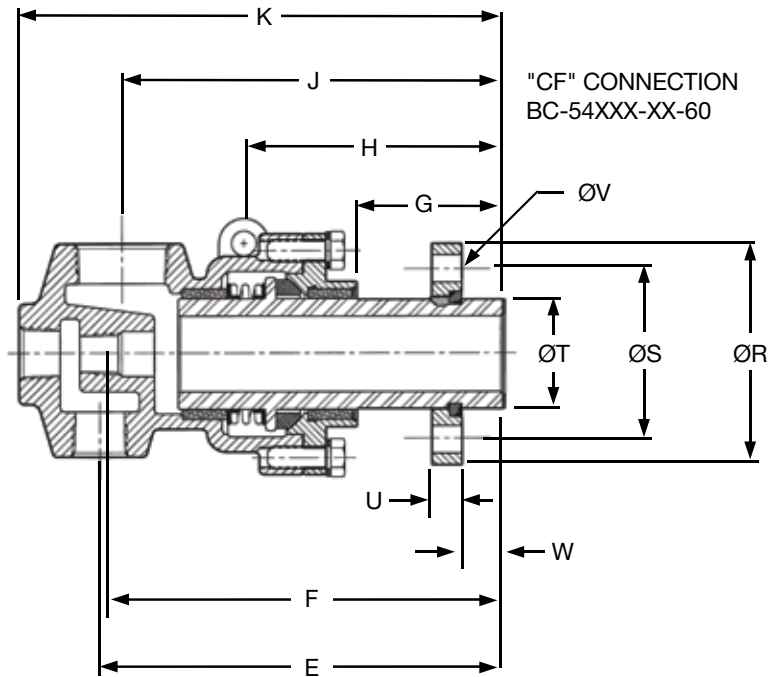


Bronze Trim

Bronze sleeve and end cap, with iron casing for water, brine and low pressure steam.

Steam - 125 psi (8.6 BAR)

Water - 300 psi (20.6 BAR)

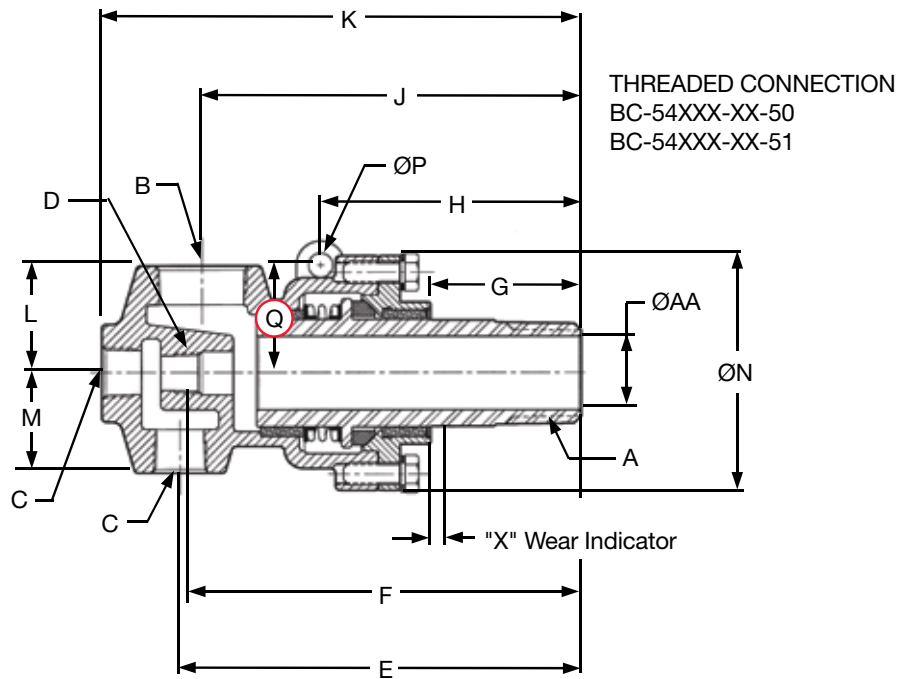


For BSPT threads:

Add a "B" to the end of the part number.

Example: BC-54065-08-50B

Union Size	Bronze Trim Part Number	A NPT	B NPT	ØAA	C NPT	D Siphon hread NPT	D Siphon Thd with Bushing*	E	F	G	H	J	K
½"	BC-54065-08-50	½" R.H.	½"	Ø.50"	¼"	⅛"	—	5.37"	5.06"	1.73"	—	4.54"	5.87"
	BC-54065-08-51	½" L.H.	½"	Ø.50"	¼"	⅛"	—	5.37"	5.06"	1.73"	—	4.54"	5.87"
¾"	BC-54065-12-50	¾" R.H.	¾"	Ø.75"	½"	¼"	⅛"	5.16"	5.25"	1.68"	—	4.54"	6.17"
	BC-54065-12-51	¾" L.H.	¾"	Ø.75"	½"	¼"	⅛"	5.16"	5.25"	1.68"	—	4.54"	6.17"
1"	BC-54065-16-50	1" R.H.	1"	Ø1.00"	½"	⅜"	¼"	5.96"	6.04"	2.03"	4.01"	5.21"	7.01"
	BC-54065-16-51	1" L.H.	1"	Ø1.00"	½"	⅜"	¼"	5.96"	6.04"	2.03"	4.01"	5.21"	7.01"
	BC-54065-16-60	CF	1"	Ø1.00"	½"	⅜"	¼"	6.69"	6.78"	2.77"	4.75"	5.94"	7.75"
1¼"	BC-54065-20-50	1¼" R.H.	1¼"	Ø1.25"	¾"	½"	⅜"	6.99"	7.25"	1.89"	4.37"	6.68"	8.60"
	BC-54065-20-51	1¼" L.H.	1¼"	Ø1.25"	¾"	½"	⅜"	6.99"	7.25"	1.89"	4.37"	6.68"	8.60"
1½"	BC-54065-24-50	1½" R.H.	1½"	Ø1.50"	¾"	¾"	½"	7.48"	7.53"	2.12"	4.72"	7.04"	9.03"
	BC-54065-24-51	1½" L.H.	1½"	Ø1.50"	¾"	¾"	½"	7.48"	7.53"	2.12"	4.72"	7.04"	9.03"
	BC-54065-24-60	CF	1½"	Ø1.50"	¾"	¾"	½"	8.89"	8.94"	3.53"	6.13"	8.45"	10.45"
2"	BC-54065-32-50	2" R.H.	2"	Ø1.88"	1¼"	¾"	½"	8.62"	8.62"	2.19"	5.01"	8.06"	10.63"
	BC-54065-32-51	2" L.H.	2"	Ø1.88"	1¼"	¾"	½"	8.62"	8.62"	2.19"	5.01"	8.06"	10.63"
	BC-54065-32-60	CF	2"	Ø1.88"	1¼"	¾"	½"	10.09"	10.08"	3.66"	6.48"	9.53"	12.10"
2½"	BC-54065-40-50	2½" R.H.	2½"	Ø2.25"	1¼"	1"	¾"	10.14"	10.24"	2.91"	6.33"	9.76"	12.45"
	BC-54065-40-51	2½" L.H.	2½"	Ø2.25"	1¼"	1"	¾"	10.14"	10.24"	2.91"	6.33"	9.76"	12.45"
	BC-54065-40-60	CF	2½"	Ø2.25"	1¼"	1"	¾"	10.09"	10.56"	3.66"	6.48"	9.53"	12.10"
3"	BC-54065-48-50	3" R.H.	3"	Ø2.88"	1½"	1½"	1"	10.86"	11.03"	3.05"	6.60"	10.67"	13.04"
	BC-54065-48-51	3" L.H.	3"	Ø2.88"	1½"	1½"	1"	10.86"	11.03"	3.05"	6.60"	10.67"	13.04"
	BC-54065-48-60	CF	3"	Ø2.88"	1½"	1½"	1"	11.35"	11.53"	3.55"	7.10"	11.16"	13.53"



L	M	ØN	ØP	Torque Rod O.D. MAX.	Q	ØR	ØS	ØT	U	4X ØV	W	"X"	Weight
1.62"	1.16"	Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs
1.62"	1.16"	Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs
1.75"	1.25"	Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.
1.75"	1.25"	Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.
2.06"	1.25"	Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.
2.06"	1.25"	Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.
2.06"	1.25"	Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø3.88"	Ø2.75"	Ø1.399"-1.401"	.75"	Ø.56"	1.092"	.25"	9 lbs.
2.19"	1.78"	Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs
2.19"	1.78"	Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs
2.44"	2.06"	Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs
2.44"	2.06"	Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs
2.44"	2.06"	Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø4.88"	Ø3.62"	Ø2.091"-2.093"	.75"	Ø.69"	1.092"	.25"	19 lbs
2.75"	2.56"	Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs
2.75"	2.56"	Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs
2.75"	2.56"	Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø5.50"	Ø4.25"	Ø2.714"-2.716"	.75"	Ø.69"	1.092"	.31"	31 lbs
3.00"	2.50"	Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.
3.00"	2.50"	Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.
3.00"	2.50"	Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø5.88"	Ø4.62"	Ø3.089"-3.091"	.75"	Ø.75"	1.092"	.25"	40 lbs
3.62"	2.88"	Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.
3.62"	2.88"	Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.
3.62"	2.88"	Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø6.50"	Ø5.25"	Ø3.714"-3.716"	.75"	Ø.69"	1.092"	.25"	50 lbs

DEUBLIN TYPE "C" & "CF" FERROUS



Steam Duoflow Fixed Siphon

SPECIAL DESIGN FEATURES

- Two widely spaced Carbon Bearings provides greater support to the siphon pipe and hoses.
- Carbon Seal placed under compression add strength and shock resistance. Unions lasts longer.
- External seal wear indicator allows for planned maintenance reducing expensive downtime.
- Hardened sleeve and nickel plated end cap provide exceptional life at high pressure.
- Sizes 1/2" to 3"

OPERATING DATA	BC-54000 SERIES			
	1/2" to 1 1/2"		2" to 3"	
Size				
Temperature	+406°F	+208°C	+406°F	+208°C
Pressure Rating	250 psi	17.2 BAR	225 psi	15.5 BAR

Type "C" Ferrous Trim Rotary Unions are ideal for a wide range of applications using steam. These unions feature an iron casing, ferrous sleeve and end cap, stainless steel spring and spring guides.

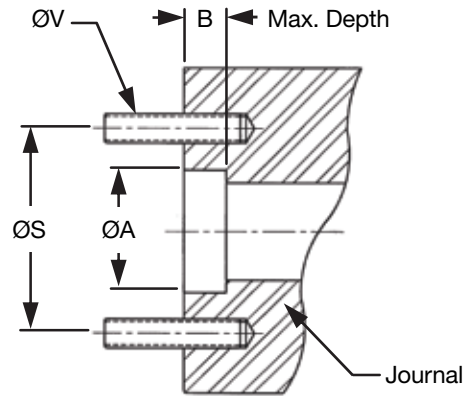
The high density carbon seal under compression and widely spaced bearing surfaces assure exceptionally long service life without lubrication. A key maintenance feature is the external seal wear indicator.

Journal Dimensions

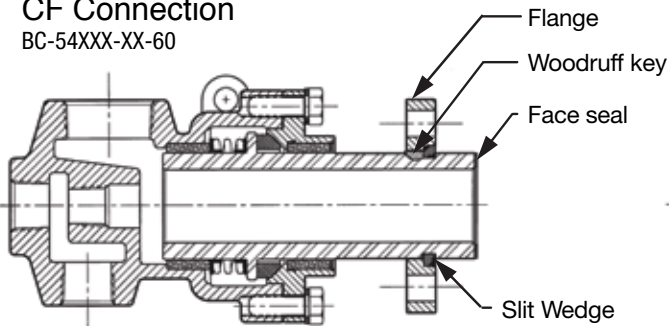
JOURNAL DIMENSIONS

Union Size	CF Connection		Quick Release Connection	
	ØA	B	ØA	B
1"	Ø1.408"-1.406"	1.052"	Ø1.283"-1.279"	.312"
1 1/4"	-	1.052"	Ø1.624"-1.623"	.375"
1 1/2"	Ø2.099"-2.096"	1.052"	Ø1.877"-1.873"	.375"
2"	Ø2.724"-2.721"	1.052"	Ø2.325"-2.321"	.500"
2 1/2"	Ø3.099"-3.096"	1.052"	Ø2.845"-2.841"	.625"
3"	Ø3.724"-3.721"	1.052"	Ø3.439"-3.435"	.875"

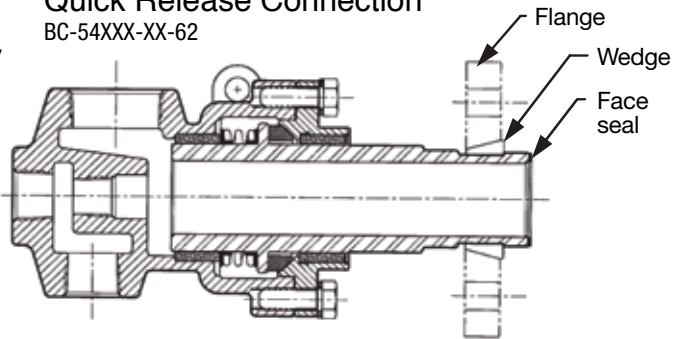
Quick Release Flanges and split wedges are available. Contact DEUBLIN for more information.



CF Connection
BC-54XXX-XX-60



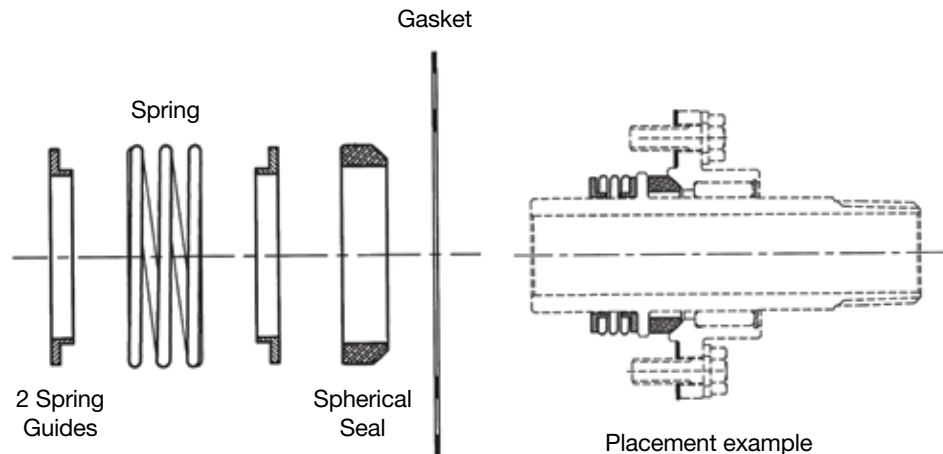
Quick Release Connection
BC-54XXX-XX-62



Service Kits

SERVICE KITS

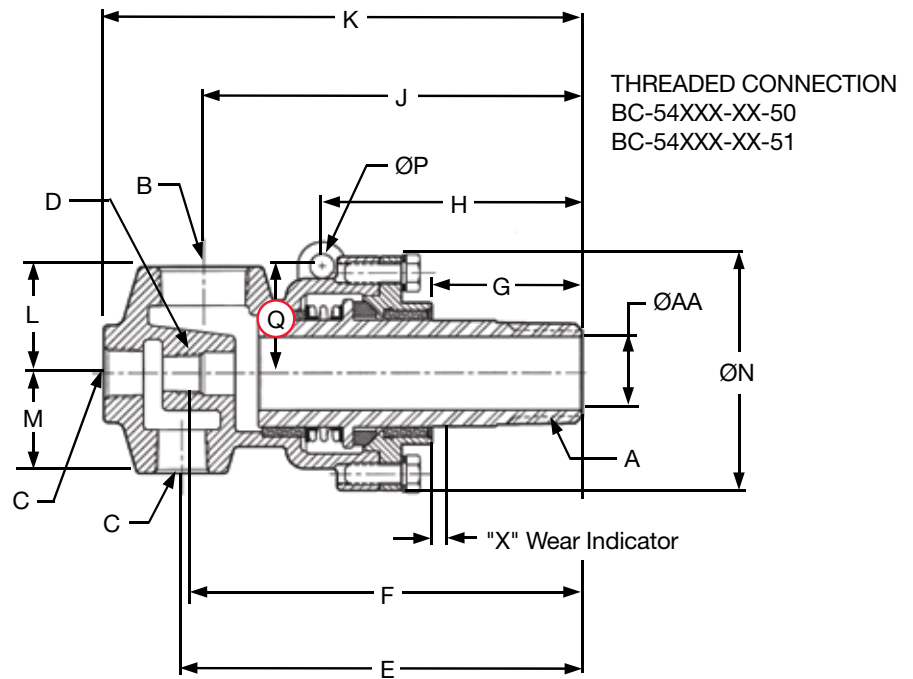
Union Size	Part Number
1/2"	10-27274-00
3/4"	10-27275-00
1"	10-27276-00
1 1/4"	10-27277-00
1 1/2"	10-27278-00
2"	10-27279-00
2 1/2"	10-27280-00
3"	10-27281-00



DEUBLIN BC-54000 Series

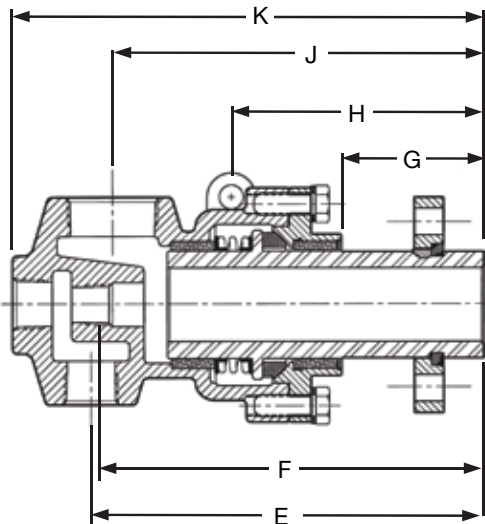


Ferrous Trim for Steam
Recommended for higher pressure steam to 250 psi (17.2 BAR)

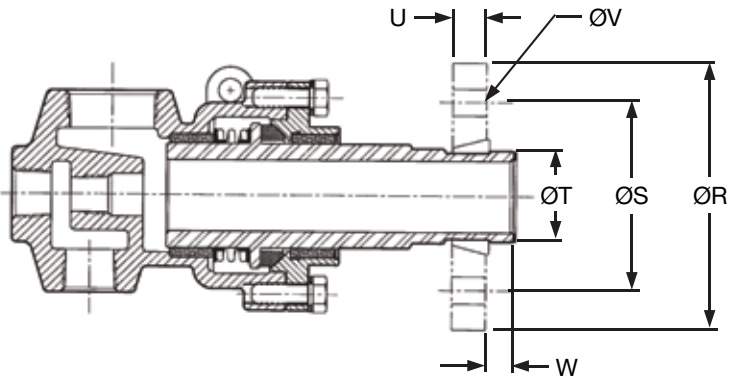


For BSPT threads:
Add a "B" to the end of the part number.
Example: BC-54000-08-50B
*BSPT Models are not supplied with siphon bushing

Union Size	Ferrous Trim Part Number	A NPT	B NPT	øAA	C NPT	E	G	H	J	K	L	M
1/2"	BC-54100-08-50	1/2" R.H.	1/2"	Ø.50"	1/4"	5.37"	1.73"	—	4.54"	5.87"	1.62"	1.16"
	BC-54100-08-51	1/2" L.H.	1/2"	Ø.50"	1/4"	5.37"	1.73"	—	4.54"	5.87"	1.62"	1.16"
3/4"	BC-54100-12-50	3/4" R.H.	3/4"	Ø.75"	1/2"	5.16"	1.68"	—	4.54"	6.17"	1.75"	1.25"
	BC-54100-12-51	3/4" L.H.	3/4"	Ø.75"	1/2"	5.16"	1.68"	—	4.54"	6.17"	1.75"	1.25"
1"	BC-54100-16-50	1" R.H.	1"	Ø1.00"	1/2"	5.96"	2.03"	4.01"	5.21"	7.01"	2.06"	1.25"
	BC-54100-16-51	1" L.H.	1"	Ø1.00"	1/2"	5.96"	2.03"	4.01"	5.21"	7.01"	2.06"	1.25"
	BC-54100-16-60	CF	1"	Ø1.00"	1/2"	6.69"	2.77"	4.75"	5.94"	7.75"	2.06"	1.25"
	BC-54100-16-62	QR	1"	Ø1.00"	1/2"	6.70"	2.78"	4.76"	5.95"	7.76"	2.06"	1.25"
1 1/4"	BC-54100-20-50	1 1/4" R.H.	1 1/4"	Ø1.25"	3/4"	6.99"	1.89"	4.37"	6.68"	8.60"	2.19"	1.78"
	BC-54100-20-51	1 1/4" L.H.	1 1/4"	Ø1.25"	3/4"	6.99"	1.89"	4.37"	6.68"	8.60"	2.19"	1.78"
	BC-54100-20-62	QR	1 1/4"	Ø1.25"	3/4"	8.55"	3.45"	5.93"	8.24"	10.16"	2.19"	1.78"
1 1/2"	BC-54100-24-50	1 1/2" R.H.	1 1/2"	Ø1.50"	3/4"	7.48"	2.12"	4.72"	7.04"	9.03"	2.44"	2.06"
	BC-54100-24-51	1 1/2" L.H.	1 1/2"	Ø1.50"	3/4"	7.48"	2.12"	4.72"	7.04"	9.03"	2.44"	2.06"
	BC-54100-24-60	CF	1 1/2"	Ø1.50"	3/4"	8.89"	3.53"	6.13"	8.45"	10.45"	2.44"	2.06"
	BC-54100-24-62	QR	v	Ø1.50"	3/4"	8.89"	3.53"	6.13"	8.45"	10.45"	2.44"	2.06"
2"	BC-54100-32-50	2" R.H.	2"	Ø1.88"	1 1/4"	8.62"	2.19"	5.01"	8.06"	10.63"	2.75"	2.56"
	BC-54100-32-51	2" L.H.	2"	Ø1.88"	1 1/4"	8.62"	2.19"	5.01"	8.06"	10.63"	2.75"	2.56"
	BC-54100-32-60	CF	2"	Ø1.88"	1 1/4"	10.09"	3.66"	6.48"	9.53"	12.10"	2.75"	2.56"
	BC-54100-32-62	QR	2"	Ø1.88"	1 1/4"	9.71"	3.28"	6.10"	9.15"	11.72"	2.75"	2.56"
2 1/2"	BC-54100-40-50	2 1/2" R.H.	2 1/2"	Ø2.25"	1 1/4"	10.14"	2.91"	6.33"	9.76"	12.45"	3.00"	2.50"
	BC-54100-40-51	2 1/2" L.H.	2 1/2"	Ø2.25"	1 1/4"	10.14"	2.91"	6.33"	9.76"	12.45"	3.00"	2.50"
	BC-54100-40-60	CF	2 1/2"	Ø2.25"	1 1/4"	10.09"	3.66"	6.48"	9.53"	12.10"	3.00"	2.50"
	BC-54100-40-62	QR	2 1/2"	Ø2.25"	1 1/4"	10.77"	3.54"	6.96"	10.39"	13.08"	3.00"	2.50"
3"	BC-54100-48-50	3" R.H.	3"	Ø2.88"	1 1/2"	10.86"	3.05"	6.60"	10.67"	13.04"	3.62"	2.88"
	BC-54100-48-51	3" L.H.	3"	Ø2.88"	1 1/2"	10.86"	3.05"	6.60"	10.67"	13.04"	3.62"	2.88"
	BC-54100-48-60	CF	3"	Ø2.88"	1 1/2"	11.35"	3.55"	7.10"	11.16"	13.53"	3.62"	2.88"
	BC-54100-48-62	QR	3"	Ø2.88"	1 1/2"	11.36"	3.55"	7.10"	11.16"	13.54"	3.62"	2.88"



"CF" CONNECTION
BC-54XXX-XX-60



QUICK RELEASE CONNECTION
BC-54XXX-XX-62

ØN	ØP	Torque Rod O.D. Max.	Q	ØR	ØS	ØT	U	4X ØV	W	"X"	Weight	Union Size
Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	1/2"
Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	
Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	3/4"
Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	1"
Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø3.88"	Ø2.75"	Ø1.399"-1.401"	.75"	Ø.56"	1.092"	.25"	9 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø5.00"	Ø3.12"	Ø1.276"-1.278"	.56"	Ø.56"	.438"	.25"	9 lbs.	
Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	1 1/4"
Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	
Ø4.38"	Ø.62"	Ø.50"	2.09"	Ø5.50"	Ø3.50"	Ø1.620"-1.622"	.62"	Ø.56"	.50"	.25"	18 lbs.	1 1/2"
Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø4.88"	Ø3.62"	Ø2.091"-2.093"	.75"	Ø.69"	1.092"	.25"	19 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø5.50"	Ø3.88"	Ø1.872"-1.870"	.69"	Ø.56"	.50"	.25"	19 lbs	2"
Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø5.50"	Ø4.25"	Ø2.714"-2.716"	.75"	Ø.69"	1.092"	.31"	31 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø6.81"	Ø4.75"	Ø2.318"-2.320"	.75"	Ø.56"	.625"	.31"	34 lbs.	2 1/2"
Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	
Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	
Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø5.88"	Ø4.62"	Ø3.089"-3.091"	.75"	Ø.75"	1.092"	.25"	40 lbs	
Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø6.75"	Ø4.75"	Ø2.838"-2.840"	.88"	Ø.56"	.75"	.25"	42 lbs.	3"
Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	
Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	
Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø6.50"	Ø5.25"	Ø3.714"-3.716"	.75"	Ø.69"	1.092"	.25"	50 lbs	
Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø8.00"	Ø6.75"	Ø3.430"-3.732"	.94"	Ø.69"	.88"	.25"	57 lbs.	

DEUBLIN TYPE "CO" & "CFO"



Hot Oil Duoflow Fixed Siphon

SPECIAL DESIGN FEATURES

- Two widely spaced Carbon Bearings provides greater support to the siphon pipe and hoses.
- Carbon Seal placed under compression add strength and shock resistance. Unions lasts longer.
- External seal wear indicator allows for planned maintenance reducing expensive downtime.
- Sizes 1/2" to 3"

OPERATING DATA	BC-54000 SERIES	
Temperature	+446°F	+230 °C
Pressure Rating	100 psi	6.8 BAR

Type "C" Hot Oil Rotary Unions are ideal for a wide range of applications using heat transfer fluids. These unions feature an iron casing, ferrous sleeve and end cap, stainless steel spring and spring guides.

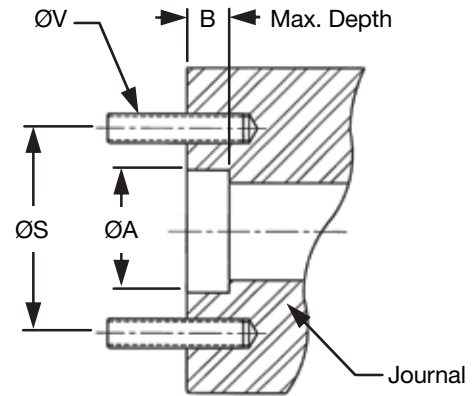
The high density carbon seal under compression and widely spaced bearing surfaces assure exceptionally long service life without lubrication. A key maintenance feature is the external seal wear indicator.

Journal Dimensions

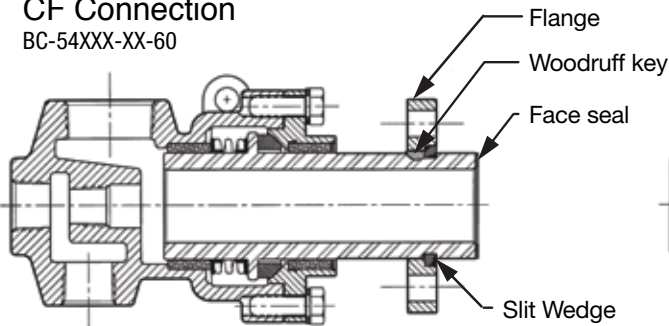
JOURNAL DIMENSIONS

Union Size	CF Connection		Quick Release Connection	
	ØA	B	ØA	B
1"	Ø1.408"-1.406"	1.052"	Ø1.283"-1.279"	.312"
1 1/2"	Ø2.099"-2.096"	1.052"	Ø1.877"-1.873"	.375"
2"	Ø2.724"-2.721"	1.052"	Ø2.325"-2.321"	.500"
2 1/2"	Ø3.099"-3.096"	1.052"	Ø2.845"-2.841"	.625"
3"	Ø3.724"-3.721"	1.052"	Ø3.439"-3.435"	.875"

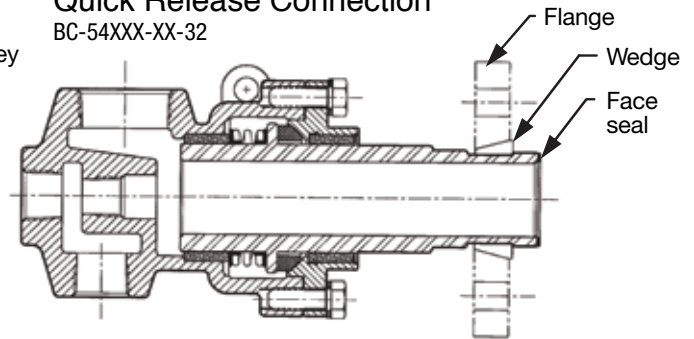
Quick Release Flanges and split wedges are available.
Contact DEUBLIN for more information.



CF Connection
BC-54XXX-XX-60



Quick Release Connection
BC-54XXX-XX-32



DEUBLIN Hot Oil Rotary Unions

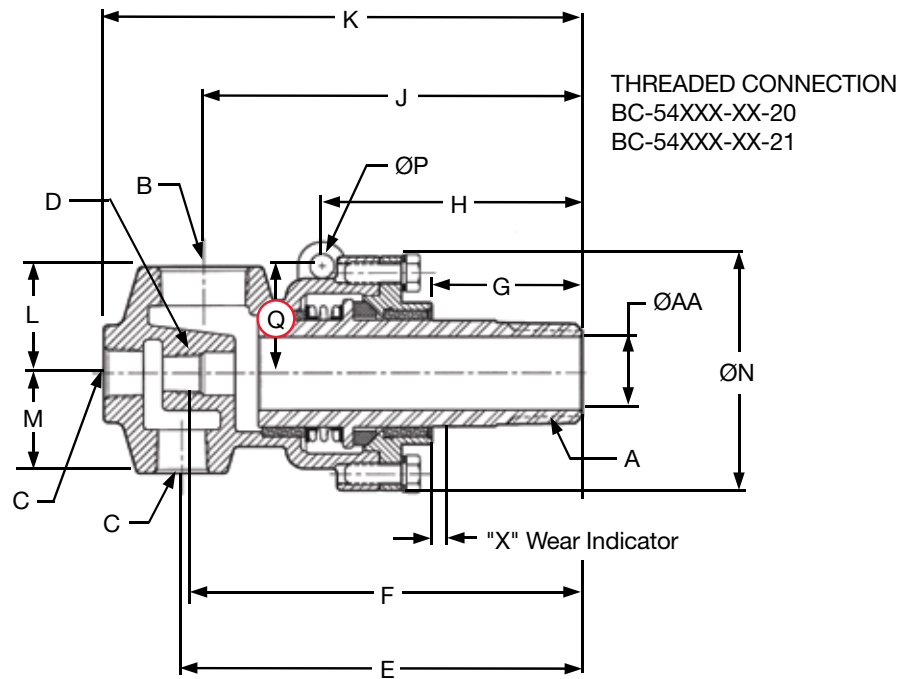
DEUBLIN's "Hot Oil" unions are recommended for applications using Dowtherm and other heat transfer fluids for circulating systems at temperatures up to +446°F (+230°C). The Type "CO" Hot Oil union has been fieldtested and proven to be the only satisfactory union among those tested. It is being successfully used on a number of machines designed by several manufacturers of paper, textile, and rubber goods machinery.

Many of the present oils used tend to "coke" at high temperatures and deposit material which settles in the union and must be periodically cleaned to remove this residue. In addition, hot spots in the system may generate this material. DEUBLIN recommends a 40-60 micron filter to be installed upstream from that rotary union to collect this material and prevent its introduction to the union.

DEUBLIN BC-54000 Series

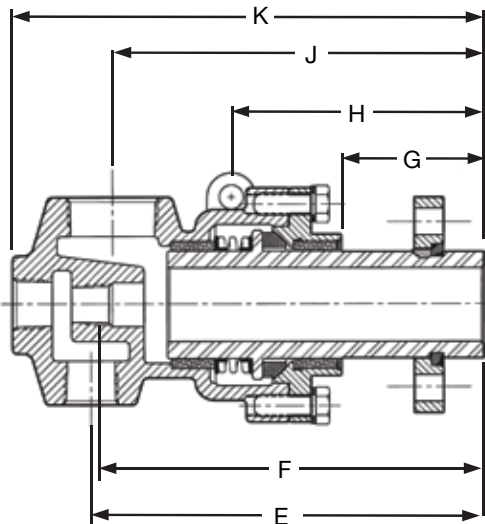


Ferrous Trim for Hot Oil
Recommended for Hot Oil services rated at 100 psi (6.8 BAR) & +446 °F.

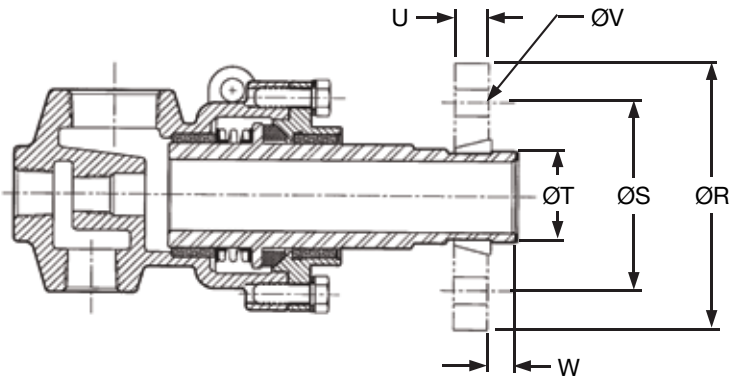


For BSPT threads:
Add a "B" to the end of the part number.
Example: BC-54000-08-20B
*BSPT Models are not supplied with siphon bushing

Union Size	Ferrous Trim Part number	A NPT	B NPT	øAA	C NPT	D Siphon Thread NPT	D Siphon Thd With Bushing	E	F	G	H	J	K
1/2"	BC-54000-08-20	1/2" R.H.	1/2"	Ø0.50"	1/4"	1/8"	—	5.37"	5.06"	1.73"	—	4.54"	5.87"
	BC-54000-08-21	1/2" L.H.	1/2"	Ø0.50"	1/4"	1/8"	—	5.37"	5.06"	1.73"	—	4.54"	5.87"
3/4"	BC-54000-12-20	3/4" R.H.	3/4"	Ø0.75"	1/2"	1/4"	1/8"	5.16"	5.25"	1.68"	—	4.54"	6.17"
	BC-54000-12-21	3/4" L.H.	3/4"	Ø0.75"	1/2"	1/4"	1/8"	5.16"	5.25"	1.68"	—	4.54"	6.17"
1"	BC-54000-16-20	1" R.H.	1"	Ø1.00"	1/2"	3/8"	1/4"	5.96"	6.04"	2.03"	4.01"	5.21"	7.01"
	BC-54000-16-21	1" L.H.	1"	Ø1.00"	1/2"	3/8"	1/4"	5.96"	6.04"	2.03"	4.01"	5.21"	7.01"
	BC-54000-16-30	CF	1"	Ø1.00"	1/2"	3/8"	1/4"	6.69"	6.78"	2.77"	4.75"	5.94"	7.75"
	BC-54000-16-32	QR	1"	Ø1.00"	1/2"	3/8"	1/4"	6.70"	6.79"	2.78"	4.76"	5.95"	7.76"
1 1/4"	BC-54000-20-20	1 1/4" R.H.	1 1/4"	Ø1.25"	3/4"	1/2"	3/8"	6.99"	7.25"	1.89"	4.37"	6.68"	8.60"
	BC-54000-20-21	1 1/4" L.H.	1 1/4"	Ø1.25"	3/4"	1/2"	3/8"	6.99"	7.25"	1.89"	4.37"	6.68"	8.60"
	BC-54000-20-32	QR	1 1/4"	Ø1.25"	3/4"	1/2"	3/8"	8.55"	8.81"	3.45"	5.93"	8.24"	10.16"
1 1/2"	BC-54000-24-20	1 1/2" R.H.	1 1/2"	Ø1.50"	3/4"	3/4"	1/2"	7.48"	7.53"	2.12"	4.72"	7.04"	9.03"
	BC-54000-24-21	1 1/2" L.H.	1 1/2"	Ø1.50"	3/4"	3/4"	1/2"	7.48"	7.53"	2.12"	4.72"	7.04"	9.03"
	BC-54000-24-30	CF	1 1/2"	Ø1.50"	3/4"	3/4"	1/2"	8.89"	8.94"	3.53"	6.13"	8.45"	10.45"
	BC-54000-24-32	QR	1 1/2"	Ø1.50"	3/4"	3/4"	1/2"	8.89"	8.94"	3.53"	6.13"	8.45"	10.45"
2"	BC-54000-32-20	2" R.H.	2"	Ø1.88"	1 1/4"	3/4"	1/2"	8.62"	8.62"	2.19"	5.01"	8.06"	10.63"
	BC-54000-32-21	2" L.H.	2"	Ø1.88"	1 1/4"	3/4"	1/2"	8.62"	8.62"	2.19"	5.01"	8.06"	10.63"
	BC-54000-32-30	CF	2"	Ø1.88"	1 1/4"	3/4"	1/2"	10.09"	10.08"	3.66"	6.48"	9.53"	12.10"
	BC-54000-32-32	QR	2"	Ø1.88"	1 1/4"	3/4"	1/2"	9.71"	9.71"	3.28"	6.10"	9.15"	11.72"
2 1/2"	BC-54000-40-20	2 1/2" R.H.	2 1/2"	Ø2.25"	1 1/4"	1"	3/4"	10.14"	10.24"	2.91"	6.33"	9.76"	12.45"
	BC-54000-40-21	2 1/2" L.H.	2 1/2"	Ø2.25"	1 1/4"	1"	3/4"	10.14"	10.24"	2.91"	6.33"	9.76"	12.45"
	BC-54000-40-30	CF	2 1/2"	Ø2.25"	1 1/4"	1"	3/4"	10.09"	10.56"	3.66"	6.48"	9.53"	12.10"
	BC-54000-40-32	QR	2 1/2"	Ø2.25"	1 1/4"	1"	3/4"	10.77"	10.86"	3.54"	6.96"	10.39"	13.08"
3"	BC-54000-48-20	3" R.H.	3"	Ø2.88"	1 1/2"	1 1/2"	1"	10.86"	11.03"	3.05"	6.60"	10.67"	13.04"
	BC-54000-48-21	3" L.H.	3"	Ø2.88"	1 1/2"	1 1/2"	1"	10.86"	11.03"	3.05"	6.60"	10.67"	13.04"
	BC-54000-48-30	CF	3"	Ø2.88"	1 1/2"	1 1/2"	1"	11.35"	11.53"	3.55"	7.10"	11.16"	13.53"
	BC-54000-48-32	QR	3"	Ø2.88"	1 1/2"	1 1/2"	1"	11.36"	11.53"	3.55"	7.10"	11.16"	13.54"



"CF" CONNECTION
BC-54XXX-XX-30



QUICK RELEASE CONNECTION
BC-54XXX-XX-32

L	M	ØN	ØP	Torque Rod O.D. Max	Q	ØR	ØS	ØT	U	4X ØV	W	"X"	Weight	Union Size
1.62"	1.16"	Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	1/2"
1.62"	1.16"	Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	
1.75"	1.25"	Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	3/4"
1.75"	1.25"	Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	
2.06"	1.25"	Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	1"
2.06"	1.25"	Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	
2.06"	1.25"	Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø3.88"	Ø2.75"	Ø1.399"-1.401"	.75"	Ø.56"	1.092"	.25"	9 lbs.	
2.06"	1.25"	Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø5.00"	Ø3.12"	Ø1.276"-1.278"	.56"	Ø.56"	.438"	.25"	9 lbs.	
2.19"	1.78"	Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	1 1/4"
2.19"	1.78"	Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	
2.19"	1.78"	Ø4.38"	Ø.62"	Ø.50"	2.09"	Ø5.50"	Ø3.50"	Ø1.620"-1.622"	.62"	Ø.56"	.50"	.25"	18 lbs.	
2.44"	2.06"	Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	1 1/2"
2.44"	2.06"	Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	
2.44"	2.06"	Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø4.88"	Ø3.62"	Ø2.091"-2.093"	.75"	Ø.69"	1.092"	.25"	19 lbs	
2.44"	2.06"	Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø5.50"	Ø3.88"	Ø1.872"-1.870"	.69"	Ø.56"	.50"	.25"	19 lbs	
2.75"	2.56"	Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	2"
2.75"	2.56"	Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	
2.75"	2.56"	Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø5.50"	Ø4.25"	Ø2.714"-2.716"	.75"	Ø.69"	1.092"	.31"	31 lbs	
2.75"	2.56"	Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø6.81"	Ø4.75"	Ø2.318"-2.320"	.75"	Ø.56"	.625"	.31"	34 lbs	
3.00"	2.50"	Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	2 1/2"
3.00"	2.50"	Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	
3.00"	2.50"	Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø5.88"	Ø4.62"	Ø3.089"-3.091"	.75"	Ø.75"	1.092"	.25"	40 lbs	
3.00"	2.50"	Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø6.75"	Ø4.75"	Ø2.838"-2.840"	.88"	Ø.56"	.75"	.25"	42 lbs.	
3.62"	2.88"	Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	3"
3.62"	2.88"	Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	
3.62"	2.88"	Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø6.50"	Ø5.25"	Ø3.714"-3.716"	.75"	Ø.69"	1.092"	.25"	50 lbs	
3.62"	2.88"	Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø8.00"	Ø6.75"	Ø3.430"-3.732"	.94"	Ø.69"	.88"	.25"	57 lbs.	

DEUBLIN TYPE "CR" & "CRF"



BC-54205 SERIES – BRONZE TRIM



BC-54206 SERIES – FERROUS TRIM

Duoflow Rotating Siphons

SPECIAL DESIGN FEATURES

- Two widely spaced Carbon Bearings provides greater support to the siphon pipe and hoses.
- Carbon Seal placed under compression add strength and shock resistance. Unions lasts longer.
- External seal wear indicator allows for planned maintenance reducing expensive downtime.
- Sizes 1/2" to 3"

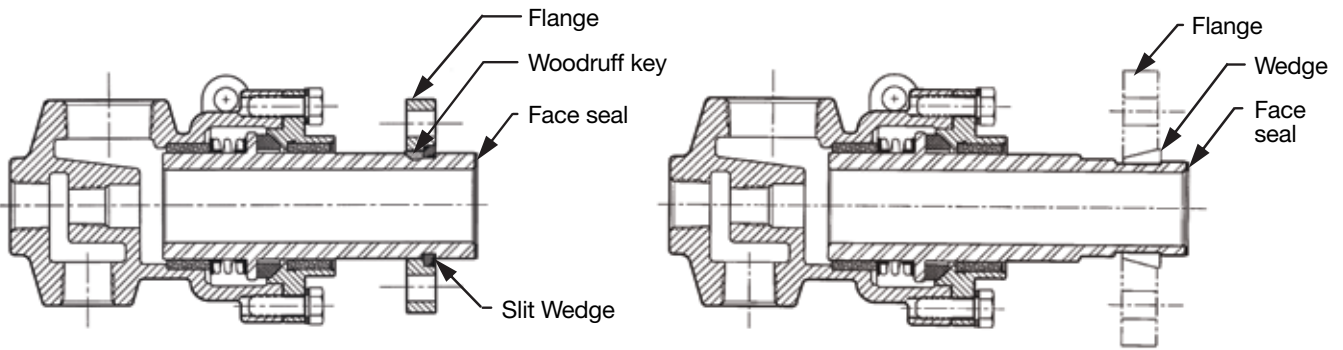
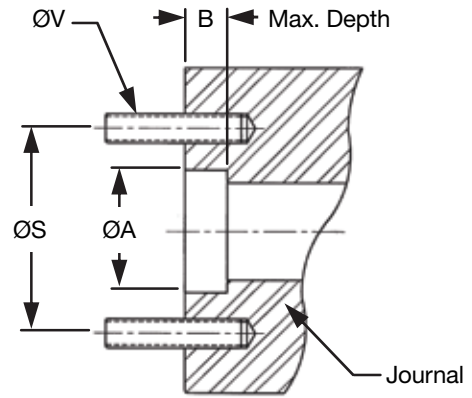
The DEUBLIN Type "CR" (threaded) and "CRF" Rotary Unions are designed to be used with rotating siphon in water or other circulation service. the rotating siphon pipe is retained by a special bearing (in place of threaded stationary siphon connection), which is independent of the seal. When used in circulating liquid services with relatively equal pressure in both inlet and outlet passages, a small amount of "cross circuit" leakage between the passages must be permissible. Siphon pipes are not furnished, but must be machined to dimensions given in the table supplied. Pressure and temperature ratings are equivalent to those given for Type "C" and "CF" rotary unions.

Journal Dimensions

JOURNAL DIMENSIONS

Union Size	CF Connection		Quick Release Connection	
	ØA	B	ØA	B
1"	Ø1.408"-1.406"	1.052"	Ø1.283"-1.279"	.312"
1 1/4"	-	1.052"	Ø1.624"-1.623"	.375"
1 1/2"	Ø2.099"-2.096"	1.052"	Ø1.877"-1.873"	.375"
2"	Ø2.724"-2.721"	1.052"	Ø2.325"-2.321"	.500"
2 1/2"	Ø3.099"-3.096"	1.052"	Ø2.845"-2.841"	.625"
3"	Ø3.724"-3.721"	1.052"	Ø3.439"-3.435"	.875"

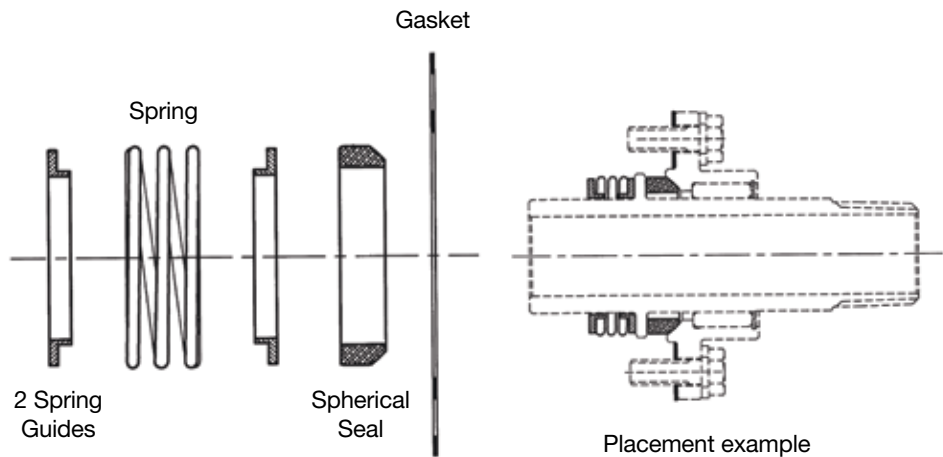
Quick Release Flanges and split wedges are available. Contact DEUBLIN for more information.



Service Kits

SERVICE KITS

Union Size	Part Number
1/2"	10-27274-00
3/4"	10-27275-00
1"	10-27276-00
1 1/4"	10-27277-00
1 1/2"	10-27278-00
2"	10-27279-00
2 1/2"	10-27280-00
3"	10-27281-00



DEUBLIN BC-54205 & BC-54206 Series



Bronze Trim

Bronze sleeve and end cap, with iron casing for water, brine and low pressure steam.

Steam - 125 psi (8.6 BAR)

Water - 300 psi (20.6 BAR)



Ferrous Trim for Steam

Recommended for higher pressure steam to 250 psi (17.2 BAR).



Ferrous Trim for Hot Oil

Recommended for Hot Oil services rated at 100 psi (6.8 BAR) & +446 °F.t

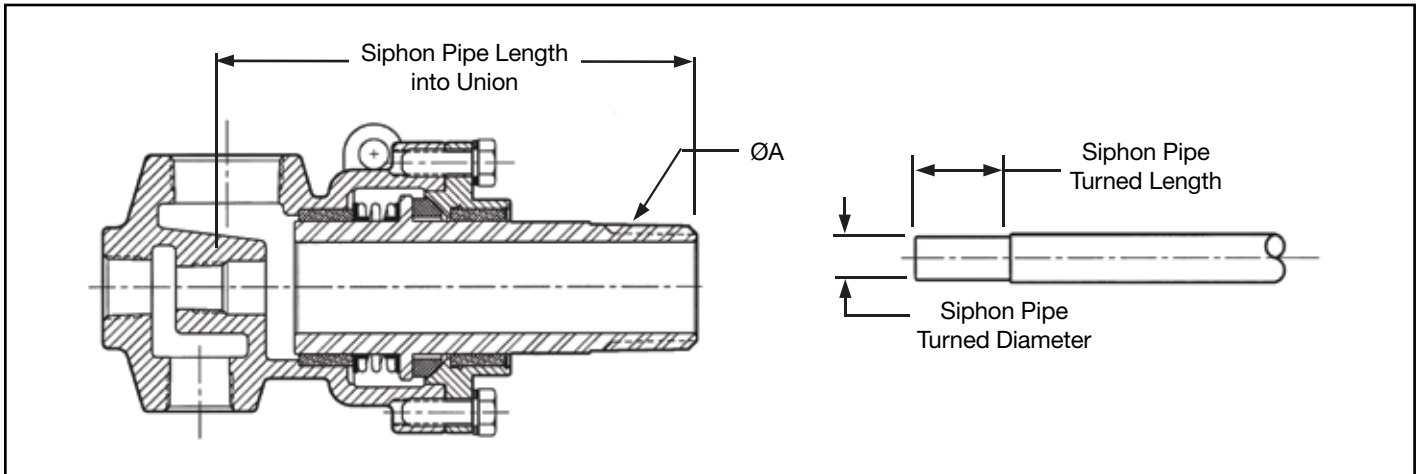
For BSPT threads:

Add a "B" to the end of the part number.

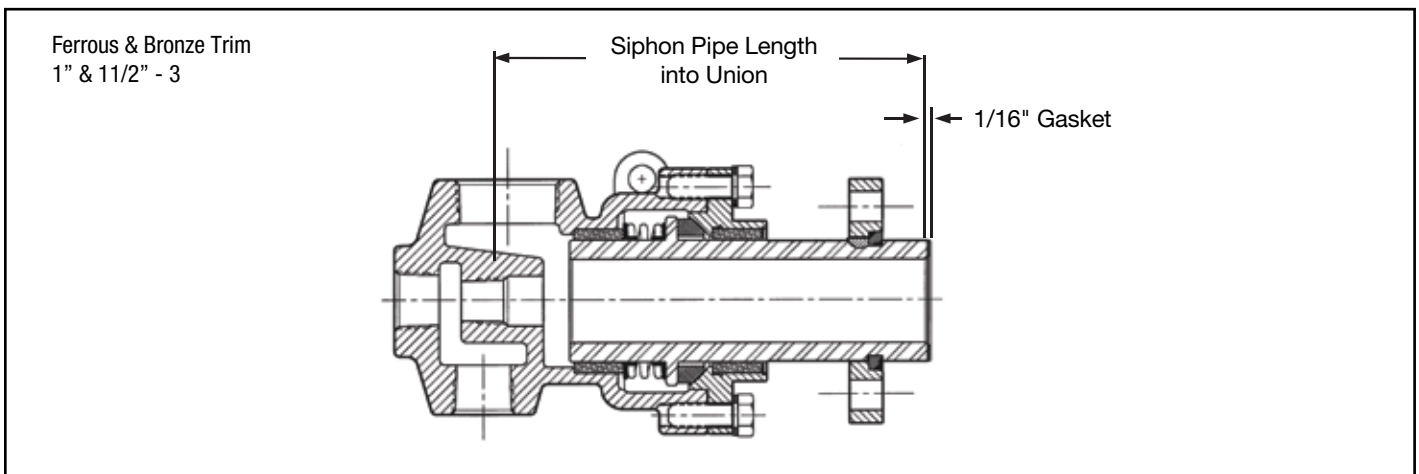
Example: BC-54205-08-50B

Union Size	Ferrous Trim Part number	Bronze Trim Part number	Hot Oil Part Number	A NPT	Siphon Pipe Size	Siphon Pipe Turned Dimension	Siphon Pipe Turned Length	Siphon Pipe Length into Union
1/2"	BC-54205-08-50	BC-54206-08-50	BC-54205-08-20	1/2" R.H.	1/8"	Ø.371-.372"	1.125"	5.13"
	BC-54205-08-51	BC-54206-08-51	BC-54205-08-21	1/2" L.H.	1/8"	Ø.371-.372"	1.125"	5.13"
3/4"	BC-54205-12-50	BC-54206-12-50	BC-54205-12-20	3/4" R.H.	1/4"	Ø.496-.497"	1.125"	5.07"
	BC-54205-12-51	BC-54206-12-51	BC-54205-12-21	3/4" L.H.	1/4"	Ø.496-.497"	1.125"	5.07"
1"	BC-54205-16-50	BC-54206-16-50	BC-54205-16-20	1" R.H.	3/8"	Ø.621-.622"	1.250"	6.08"
	BC-54205-16-51	BC-54206-16-51	BC-54205-16-21	1" L.H.	3/8"	Ø.621-.622"	1.250"	6.08"
	BC-54205-16-60	BC-54206-16-60	BC-54205-16-30	CF	3/8"	Ø.621-.622"	1.250"	6.82"
	BC-54205-16-62	not available	BC-54205-16-32	QR	3/8"	Ø.621-.622"	1.250"	6.83"
1 1/4"	BC-54205-20-50	BC-54206-20-50	BC-54205-20-20	1 1/4" R.H.	1/2"	Ø.808-.810"	1.500"	7.47"
	BC-54205-20-51	BC-54206-20-51	BC-54205-20-21	1 1/4" L.H.	1/2"	Ø.808-.810"	1.500"	7.47"
	BC-54205-20-62	not available	BC-54205-20-32	QR	1/2"	Ø.808-.810"	1.500"	8.59"
1 1/2"	BC-54205-24-50	BC-54206-24-50	BC-54205-24-20	1 1/2" R.H.	3/4"	Ø.995-.997"	1.500"	7.47"
	BC-54205-24-51	BC-54206-24-51	BC-54205-24-21	1 1/2" L.H.	3/4"	Ø.995-.997"	1.500"	7.47"
	BC-54205-24-60	BC-54206-24-60	BC-54205-24-30	CF	3/4"	Ø.995-.997"	1.500"	8.88"
	BC-54205-24-62	not available	BC-54205-24-32	QR	3/4"	Ø.995-.997"	1.500"	8.89"
2"	BC-54205-32-50	BC-54206-32-50	BC-54205-32-20	2" R.H.	1"	Ø1.245-1.247"	2.000"	8.37"
	BC-54205-32-51	BC-54206-32-51	BC-54205-32-21	2" L.H.	1"	Ø1.245-1.247"	2.000"	8.37"
	BC-54205-32-60	BC-54206-32-60	BC-54205-32-30	CF	1"	Ø1.245-1.247"	2.000"	9.83"
	BC-54205-32-62	not available	BC-54205-32-32	QR	1"	Ø1.245-1.247"	2.000"	9.46"
2 1/2"	BC-54205-40-50	BC-54206-40-50	BC-54205-40-20	2 1/2" R.H.	1 1/4"	Ø1.495-1.497"	2.250"	10.02"
	BC-54205-40-51	BC-54206-40-51	BC-54205-40-21	2 1/2" L.H.	1 1/4"	Ø1.495-1.497"	2.250"	10.02"
	BC-54205-40-60	BC-54206-40-60	BC-54205-40-30	CF	1 1/4"	Ø1.495-1.497"	2.250"	10.64"
	BC-54205-40-62	not available	BC-54205-40-32	QR	1 1/4"	Ø1.495-1.497"	2.250"	10.64"
3"	BC-54205-48-50	BC-54206-48-50	BC-54205-48-20	3" R.H.	1 1/2"	Ø1.745-1.747"	2.250"	11.03"
	BC-54205-48-51	BC-54206-48-51	BC-54205-48-21	3" L.H.	1 1/2"	Ø1.745-1.747"	2.250"	11.03"
	BC-54205-48-60	BC-54206-48-60	BC-54205-48-30	CF	1 1/2"	Ø1.745-1.747"	2.250"	11.54"
	BC-54205-48-62	not available	BC-54205-48-32	QR	1 1/2"	Ø1.745-1.747"	2.250"	11.54"

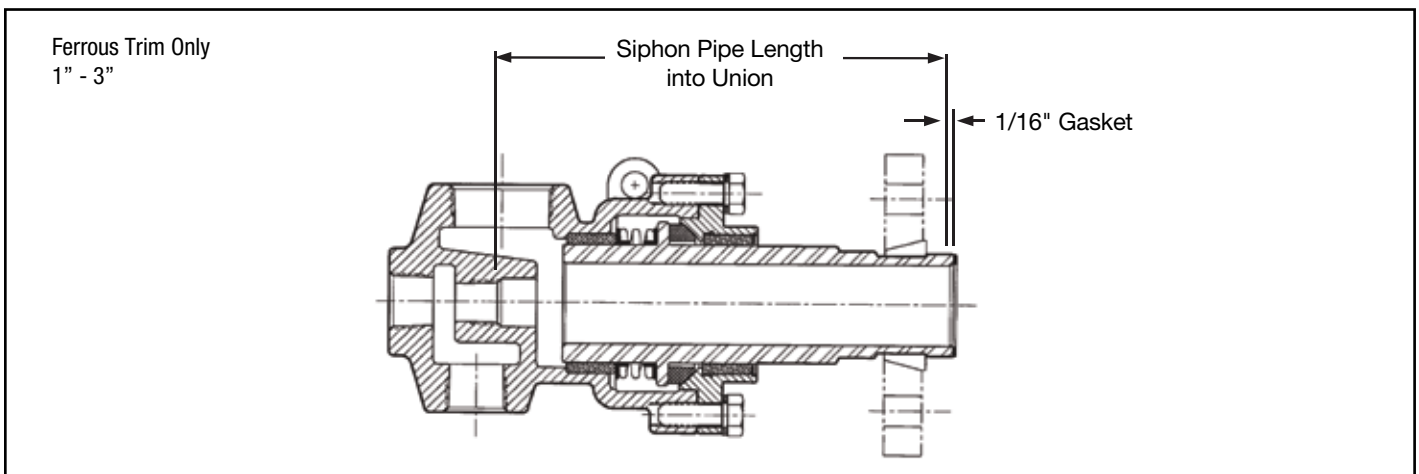
Threaded End & Siphon Pipe



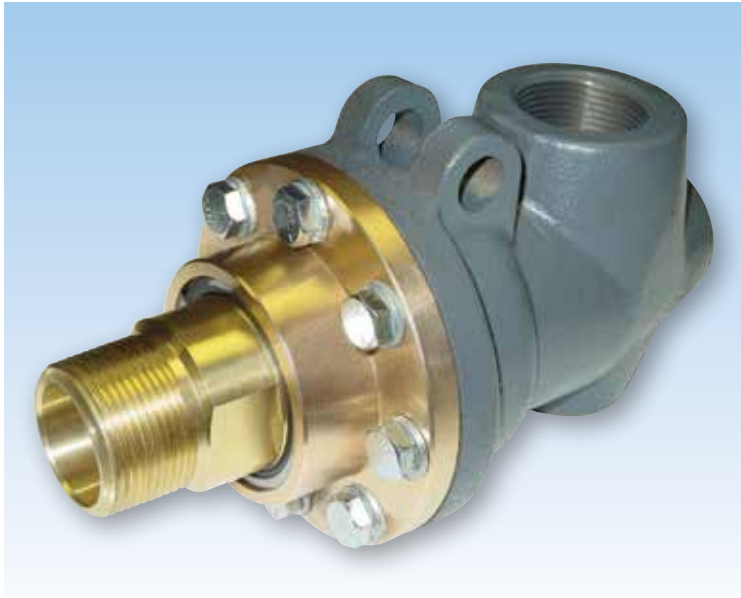
CF Connection



Quick Release Connection



DEUBLIN TYPE “CS” & “CSF”



Water & Steam Monoflow

SPECIAL DESIGN FEATURES

- Two widely spaced Carbon Bearings provides greater support to the siphon pipe and hoses.
- Carbon Seal placed under compression add strength and shock resistance. Unions lasts longer.
- External seal wear indicator allows for planned maintenance reducing expensive downtime.
- All metal wear parts are bronze for excellent corrosion resistance.
- Sizes 1/2” to 3”

OPERATING DATA	BC-54165 SERIES			
	Steam		Water	
Media				
Temperature	+353°F	+178°C	+353°F	+178°C
Pressure Rating	125 psi	8.6 BAR	300 psi	20.6 BAR

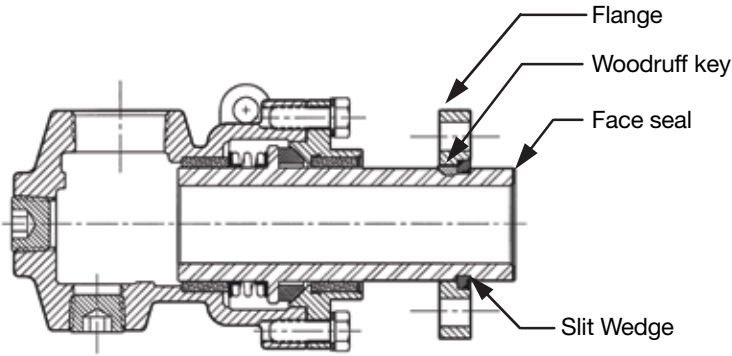
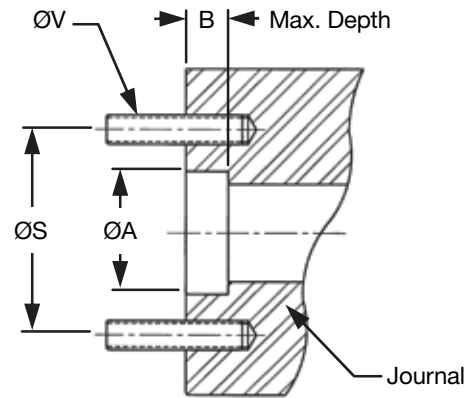
Type “CS” Bronze Trim Rotary Unions are ideal for a wide range of applications using low pressure steam & water. These unions feature an iron casing, bronze sleeve and end cap, stainless steel spring and spring guides.

The high density carbon seal under compression and widely spaced bearing surfaces assure exceptionally long service life without lubrication. A key maintenance feature is the external seal wear indicator.

Journal Dimensions

JOURNAL DIMENSIONS

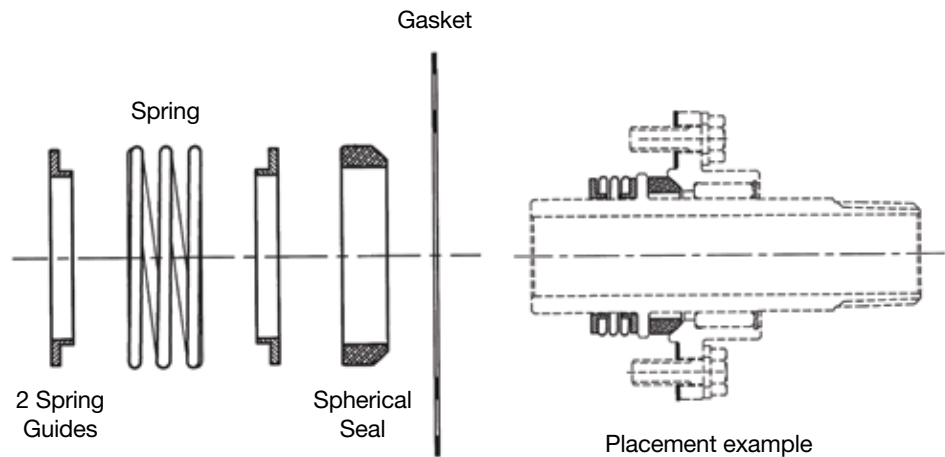
Union Size	CF Connection	
	ØA	B
1"	Ø1.408"-1.406"	1.052"
1 1/2"	Ø2.099"-2.096"	1.052"
2"	Ø2.724"-2.721"	1.052"
2 1/2"	Ø3.099"-3.096"	1.052"
3"	Ø3.724"-3.721"	1.052"



Service Kits

SERVICE KITS

Union Size	Part Number
1/2"	10-27274-00
3/4"	10-27275-00
1"	10-27276-00
1 1/4"	10-27277-00
1 1/2"	10-27278-00
2"	10-27279-00
2 1/2"	10-27280-00
3"	10-27281-00



DEUBLIN BC-54065 Series

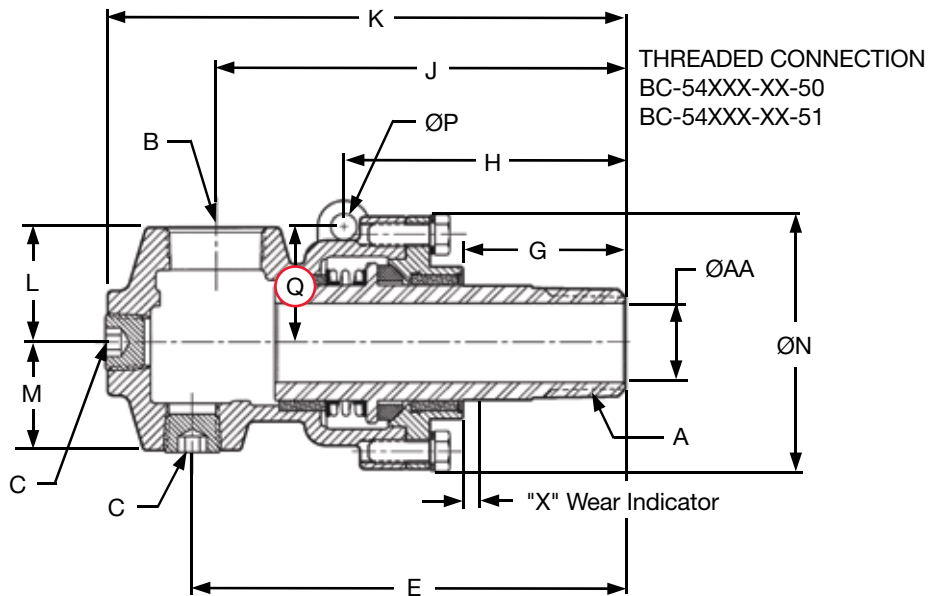


Bronze Trim

Bronze sleeve and end cap, with casing for water, brine and low pressure steam.

Steam - 125 psi (8.6 BAR)

Water - 300 psi (20.6 BAR)

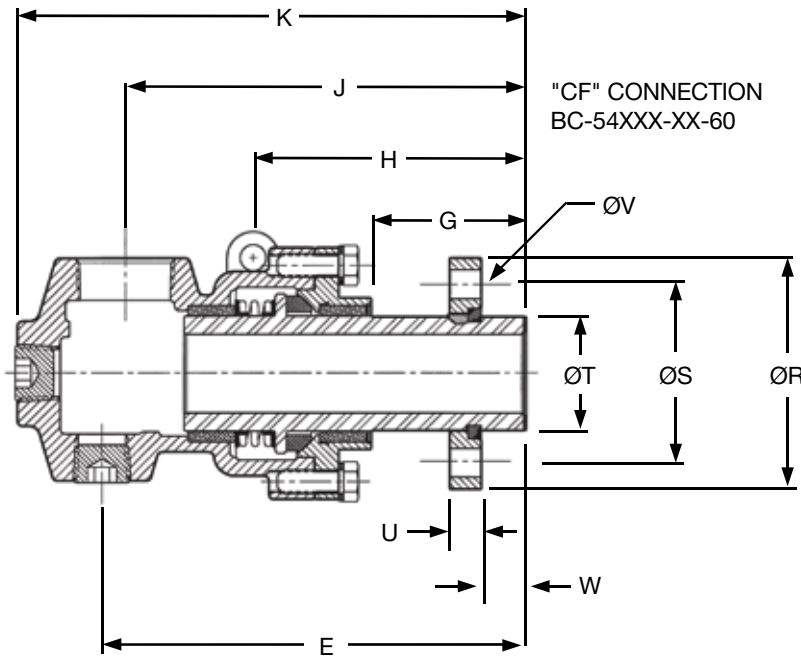


For BSPT threads:

Add a "B" to the end of the part number.

Example: BC-54165-08-50B

Union Size	Bronze Trim Part Number	A NPT	B NPT	øAA	C NPT	E	G	H	J	K	L	M
1/2"	BC-54165-08-50	1/2" R.H.	1/2"	Ø.50"	1/4"	5.37"	1.73"	—	4.54"	5.87"	1.62"	1.16"
	BC-54165-08-51	1/2" L.H.	1/2"	Ø.50"	1/4"	5.37"	1.73"	—	4.54"	5.87"	1.62"	1.16"
3/4"	BC-54165-12-50	3/4" R.H.	3/4"	Ø.75"	1/2"	5.16"	1.68"	—	4.54"	6.17"	1.75"	1.25"
	BC-54165-12-51	3/4" L.H.	3/4"	Ø.75"	1/2"	5.16"	1.68"	—	4.54"	6.17"	1.75"	1.25"
1"	BC-54165-16-50	1" R.H.	1"	Ø1.00"	1/2"	5.96"	2.03"	4.01"	5.21"	7.01"	2.06"	1.25"
	BC-54165-16-51	1" L.H.	1"	Ø1.00"	1/2"	5.96"	2.03"	4.01"	5.21"	7.01"	2.06"	1.25"
	BC-54165-16-60	CF	1"	Ø1.00"	1/2"	6.69"	2.77"	4.75"	5.94"	7.75"	2.06"	1.25"
1 1/4"	BC-54165-20-50	1 1/4" R.H.	1 1/4"	Ø1.25"	3/4"	6.99"	1.89"	4.37"	6.68"	8.60"	2.19"	1.78"
	BC-54165-20-51	1 1/4" L.H.	1 1/4"	Ø1.25"	3/4"	6.99"	1.89"	4.37"	6.68"	8.60"	2.19"	1.78"
1 1/2"	BC-54165-24-50	1 1/2" R.H.	1 1/2"	Ø1.50"	3/4"	7.48"	2.12"	4.72"	7.04"	9.03"	2.44"	2.06"
	BC-54165-24-51	1 1/2" L.H.	1 1/2"	Ø1.50"	3/4"	7.48"	2.12"	4.72"	7.04"	9.03"	2.44"	2.06"
	BC-54165-24-60	CF	1 1/2"	Ø1.50"	3/4"	8.89"	3.53"	6.13"	8.45"	10.45"	2.44"	2.06"
2"	BC-54165-32-50	2" R.H.	2"	Ø1.88"	1 1/4"	8.62"	2.19"	5.01"	8.06"	10.63"	2.75"	2.56"
	BC-54165-32-51	2" L.H.	2"	Ø1.88"	1 1/4"	8.62"	2.19"	5.01"	8.06"	10.63"	2.75"	2.56"
	BC-54165-32-60	CF	2"	Ø1.88"	1 1/4"	10.09"	3.66"	6.48"	9.53"	12.10"	2.75"	2.56"
2 1/2"	BC-54165-40-50	2 1/2" R.H.	2 1/2"	Ø2.25"	1 1/4"	10.14"	2.91"	6.33"	9.76"	12.45"	3.00"	2.50"
	BC-54165-40-51	2 1/2" L.H.	2 1/2"	Ø2.25"	1 1/4"	10.14"	2.91"	6.33"	9.76"	12.45"	3.00"	2.50"
	BC-54165-40-60	CF	2 1/2"	Ø2.25"	1 1/4"	10.09"	3.66"	6.48"	9.53"	12.10"	3.00"	2.50"
3"	BC-54165-48-50	3" R.H.	3"	Ø2.88"	1 1/2"	10.86"	3.05"	6.60"	10.67"	13.04"	3.62"	2.88"
		3" L.H.	3"	Ø2.88"	1 1/2"	10.86"	3.05"	6.60"	10.67"	13.04"	3.62"	2.88"
	BC-54165-48-60	CF	3"	Ø2.88"	1 1/2"	11.35"	3.55"	7.10"	11.16"	13.53"	3.62"	2.88"



ØN	ØP	Torque Rod O.D. Max	Q	ØR	ØS	ØT	U	4X ØV	W	"X"	Weight	Union Size
Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	1/2"
Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	
Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	3/4"
Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	1"
Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø3.88"	Ø2.75"	Ø1.399"-1.401"	.75"	Ø.56"	1.092"	.25"	9 lbs.	
Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	1 1/4"
Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	1 1/2"
Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø4.88"	Ø3.62"	Ø2.091"-2.093"	.75"	Ø.69"	1.092"	.25"	19 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	2"
Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø5.50"	Ø4.25"	Ø2.714"-2.716"	.75"	Ø.69"	1.092"	.31"	31 lbs	
Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	2 1/2"
Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	
Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø5.88"	Ø4.62"	Ø3.089"-3.091"	.75"	Ø.75"	1.092"	.25"	40 lbs	
Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	3"
Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	
Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø6.50"	Ø5.25"	Ø3.714"-3.716"	.75"	Ø.69"	1.092"	.25"	50 lbs	

DEUBLIN TYPE “CS” & “CSF”



Steam Monoflow

SPECIAL DESIGN FEATURES

- Two widely spaced Carbon Bearings provides greater support to the siphon pipe and hoses.
- Carbon Seal placed under compression add strength and shock resistance. Unions lasts longer.
- External seal wear indicator allows for planned maintenance reducing expensive downtime.
- Hardened sleeve and nickel plated end cap provide exceptional life at high pressure.
- Sizes 1/2” to 3”

OPERATING DATA	BC-54100 SERIES			
	1/2" to 1 1/2"		2" to 3"	
Size	1/2" to 1 1/2"		2" to 3"	
Temperature	+406°F	+208°C	+406°F	+208°C
Pressure Rating	250 psi	17.2 BAR	225 psi	15.5 BAR

Type “CS” Ferrous Trim Rotary Unions are ideal for a wide range of applications using steam. These unions feature an iron casing, ferrous sleeve and end cap, stainless steel spring and spring guides.

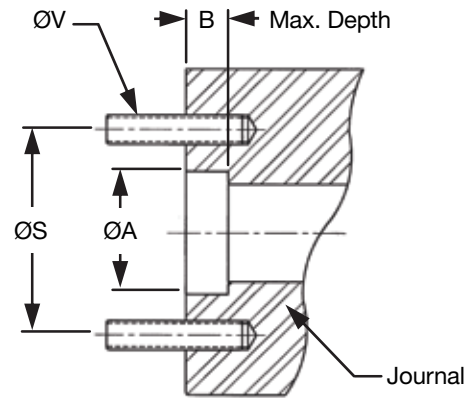
The high density carbon seal under compression and widely spaced bearing surfaces assure exceptionally long service life without lubrication. A key maintenance feature is the external seal wear indicator.

Journal Dimensions

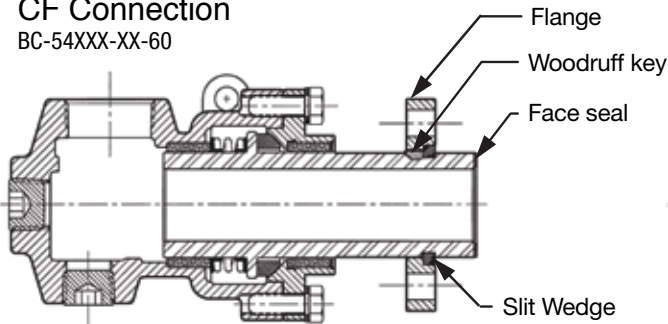
JOURNAL DIMENSIONS

Union Size	CF Connection		Quick Release Connection	
	ØA	B	ØA	B
1"	Ø1.408"-1.406"	1.052"	Ø1.283"-1.279"	.312"
1 1/2"	Ø2.099"-2.096"	1.052"	Ø1.877"-1.873"	.375"
2"	Ø2.724"-2.721"	1.052"	Ø2.325"-2.321"	.500"
2 1/2"	Ø3.099"-3.096"	1.052"	Ø2.845"-2.841"	.625"
3"	Ø3.724"-3.721"	1.052"	Ø3.439"-3.435"	.875"

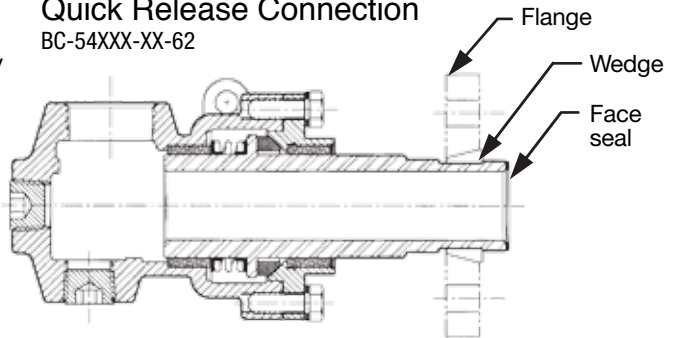
Quick Release Flanges and split wedges are available. Contact DEUBLIN for more information.



CF Connection
BC-54XXX-XX-60



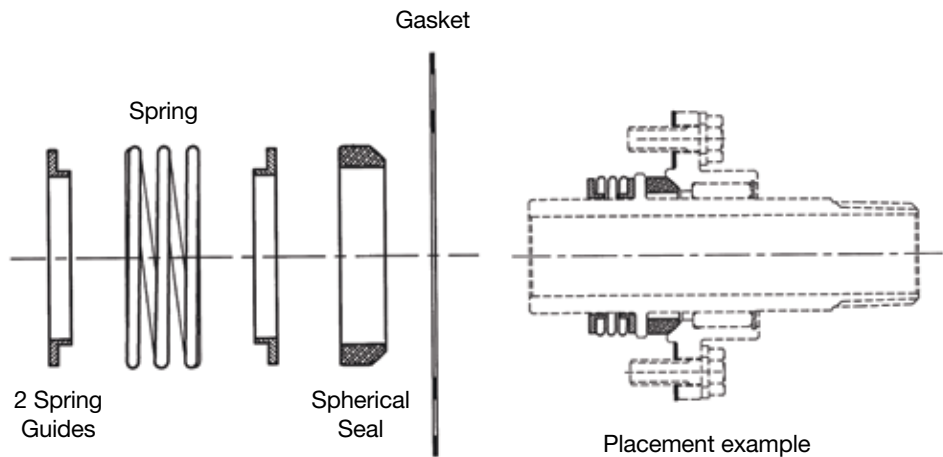
Quick Release Connection
BC-54XXX-XX-62



Service Kits

SERVICE KITS

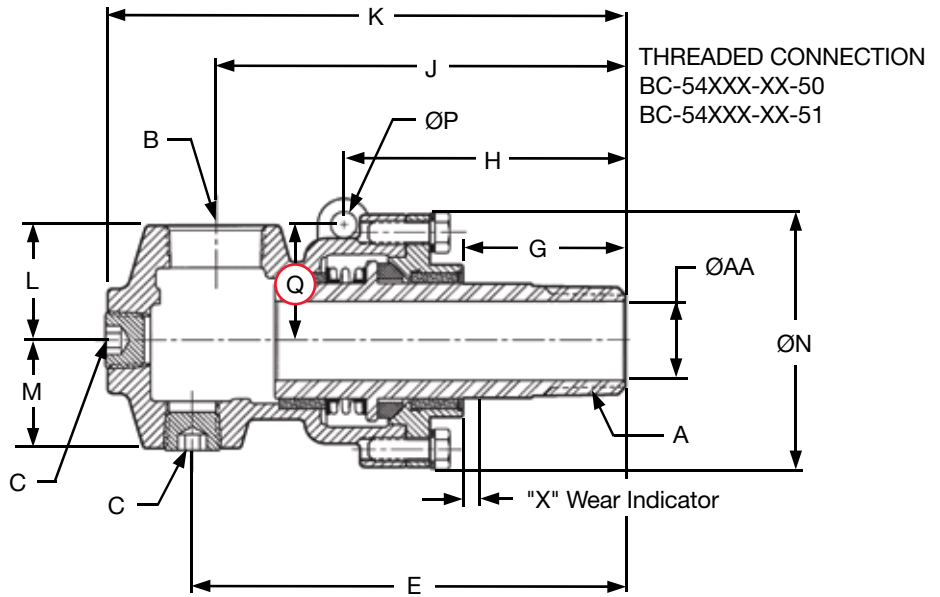
Union Size	Part Number
1/2"	10-27274-00
3/4"	10-27275-00
1"	10-27276-00
1 1/4"	10-27277-00
1 1/2"	10-27278-00
2"	10-27279-00
2 1/2"	10-27280-00
3"	10-27281-00



DEUBLIN BC-54100 Series

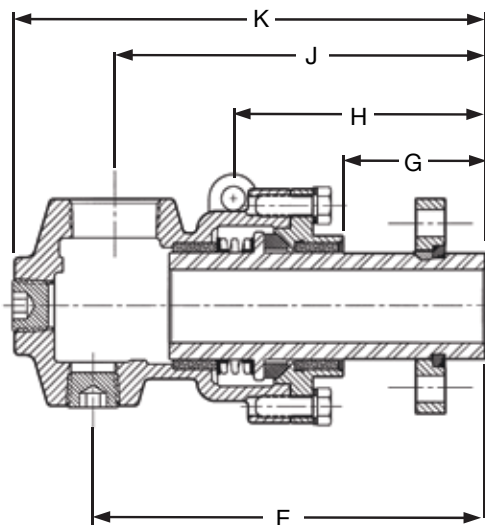


Ferrous Trim for Steam
Recommended for higher pressure steam to 250 psi (17.2 BAR)

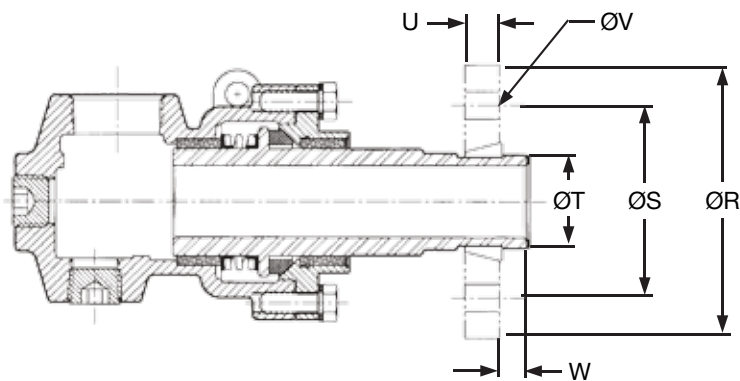


For BSPT threads:
Add a "B" to the end of the part number.
Example: BC-54100-08-50B

Union Size	Ferrous Trim Part Number	A NPT	B NPT	ØAA	C NPT	E	G	H	J	K	L	M
1/2"	BC-54100-08-50	1/2" R.H.	1/2"	Ø.50"	1/4"	5.37"	1.73"	—	4.54"	5.87"	1.62"	1.16"
	BC-54100-08-51	1/2" L.H.	1/2"	Ø.50"	1/4"	5.37"	1.73"	—	4.54"	5.87"	1.62"	1.16"
3/4"	BC-54100-12-50	3/4" R.H.	3/4"	Ø.75"	1/2"	5.16"	1.68"	—	4.54"	6.17"	1.75"	1.25"
	BC-54100-12-51	3/4" L.H.	3/4"	Ø.75"	1/2"	5.16"	1.68"	—	4.54"	6.17"	1.75"	1.25"
1"	BC-54100-16-50	1" R.H.	1"	Ø1.00"	1/2"	5.96"	2.03"	4.01"	5.21"	7.01"	2.06"	1.25"
	BC-54100-16-51	1" L.H.	1"	Ø1.00"	1/2"	5.96"	2.03"	4.01"	5.21"	7.01"	2.06"	1.25"
	BC-54100-16-60	CF	1"	Ø1.00"	1/2"	6.69"	2.77"	4.75"	5.94"	7.75"	2.06"	1.25"
	BC-54100-16-62	QR	1"	Ø1.00"	1/2"	6.70"	2.78"	4.76"	5.95"	7.76"	2.06"	1.25"
1 1/4"	BC-54100-20-50	1 1/4" R.H.	1 1/4"	Ø1.25"	3/4"	6.99"	1.89"	4.37"	6.68"	8.60"	2.19"	1.78"
	BC-54100-20-51	1 1/4" L.H.	1 1/4"	Ø1.25"	3/4"	6.99"	1.89"	4.37"	6.68"	8.60"	2.19"	1.78"
	BC-54100-20-62	QR	1 1/4"	Ø1.25"	3/4"	8.55"	3.45"	5.93"	8.24"	10.16"	2.19"	1.78"
1 1/2"	BC-54100-24-50	1 1/2" R.H.	1 1/2"	Ø1.50"	3/4"	7.48"	2.12"	4.72"	7.04"	9.03"	2.44"	2.06"
	BC-54100-24-51	1 1/2" L.H.	1 1/2"	Ø1.50"	3/4"	7.48"	2.12"	4.72"	7.04"	9.03"	2.44"	2.06"
	BC-54100-24-60	CF	1 1/2"	Ø1.50"	3/4"	8.89"	3.53"	6.13"	8.45"	10.45"	2.44"	2.06"
	BC-54100-24-62	QR	1 1/2"	Ø1.50"	3/4"	8.89"	3.53"	6.13"	8.45"	10.45"	2.44"	2.06"
2"	BC-54100-32-50	2" R.H.	2"	Ø1.88"	1 1/4"	8.62"	2.19"	5.01"	8.06"	10.63"	2.75"	2.56"
	BC-54100-32-51	2" L.H.	2"	Ø1.88"	1 1/4"	8.62"	2.19"	5.01"	8.06"	10.63"	2.75"	2.56"
	BC-54100-32-60	CF	2"	Ø1.88"	1 1/4"	10.09"	3.66"	6.48"	9.53"	12.10"	2.75"	2.56"
2 1/2"	BC-54100-32-62	QR	2"	Ø1.88"	1 1/4"	9.71"	3.28"	6.10"	9.15"	11.72"	2.75"	2.56"
	BC-54100-40-50	2 1/2" R.H.	2 1/2"	Ø2.25"	1 1/4"	10.14"	2.91"	6.33"	9.76"	12.45"	3.00"	2.50"
	BC-54100-40-51	2 1/2" L.H.	2 1/2"	Ø2.25"	1 1/4"	10.14"	2.91"	6.33"	9.76"	12.45"	3.00"	2.50"
	BC-54100-40-60	CF	2 1/2"	Ø2.25"	1 1/4"	10.09"	3.66"	6.48"	9.53"	12.10"	3.00"	2.50"
3"	BC-54100-40-62	QR	2 1/2"	Ø2.25"	1 1/4"	10.77"	3.54"	6.96"	10.39"	13.08"	3.00"	2.50"
	BC-54100-48-50	3" R.H.	3"	Ø2.88"	1 1/2"	10.86"	3.05"	6.60"	10.67"	13.04"	3.62"	2.88"
	BC-54100-48-51	3" L.H.	3"	Ø2.88"	1 1/2"	10.86"	3.05"	6.60"	10.67"	13.04"	3.62"	2.88"
	BC-54100-48-60	CF	3"	Ø2.88"	1 1/2"	11.35"	3.55"	7.10"	11.16"	13.53"	3.62"	2.88"
	BC-54100-48-62	QR	3"	Ø2.88"	1 1/2"	11.36"	3.55"	7.10"	11.16"	13.54"	3.62"	2.88"



"CF" CONNECTION
BC-54XXX-XX-60



QUICK RELEASE CONNECTION
BC-54XXX-XX-62

ØN	ØP	Torque Rod O.D. Max.	Q	ØR	ØS	ØT	U	4X ØV	W	"X"	Weight	Union Size
Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	1/2"
Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	
Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	3/4"
Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	1"
Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø3.88"	Ø2.75"	Ø1.399"-1.401"	.75"	Ø.56"	1.092"	.25"	9 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø5.00"	Ø3.12"	Ø1.276"-1.278"	.56"	Ø.56"	.438"	.25"	9 lbs.	
Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	1 1/4"
Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	
Ø4.38"	Ø.62"	Ø.50"	2.09"	Ø5.50"	Ø3.50"	Ø1.620"-1.622"	.62"	Ø.56"	.50"	.25"	18 lbs.	
Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	1 1/2"
Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø4.88"	Ø3.62"	Ø2.091"-2.093"	.75"	Ø.69"	1.092"	.25"	19 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø5.50"	Ø3.88"	Ø1.872"-1.870"	.69"	Ø.56"	.50"	.25"	19 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	2"
Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø5.50"	Ø4.25"	Ø2.714"-2.716"	.75"	Ø.69"	1.092"	.31"	31 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø6.81"	Ø4.75"	Ø2.318"-2.320"	.75"	Ø.56"	.625"	.31"	34 lbs.	
Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	2 1/2"
Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	
Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø5.88"	Ø4.62"	Ø3.089"-3.091"	.75"	Ø.75"	1.092"	.25"	40 lbs	
Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø6.75"	Ø4.75"	Ø2.838"-2.840"	.88"	Ø.56"	.75"	.25"	42 lbs.	
Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	3"
Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	
Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø6.50"	Ø5.25"	Ø3.714"-3.716"	.75"	Ø.69"	1.092"	.25"	50 lbs	
Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø8.00"	Ø6.75"	Ø3.430"-3.732"	.94"	Ø.69"	.88"	.25"	57 lbs.	

DEUBLIN TYPE “CS” & “CSF”



Hot Oil Monoflow

SPECIAL DESIGN FEATURES

- Two widely spaced Carbon Bearings provides greater support to the siphon pipe and hoses.
- Carbon Seal placed under compression add strength and shock resistance. Unions lasts longer.
- External seal wear indicator allows for planned maintenance reducing expensive downtime.
- Sizes 1/2” to 3”

OPERATING DATA	BC-54100 SERIES	
Temperature	+446°F	+230 °C
Pressure Rating	100 psi	6.8 BAR

Type “CS” Hot Oil Rotary Unions are ideal for a wide range of applications using heat transfer fluids. These unions feature an iron casing, ferrous sleeve and end cap, stainless steel spring and spring guides.

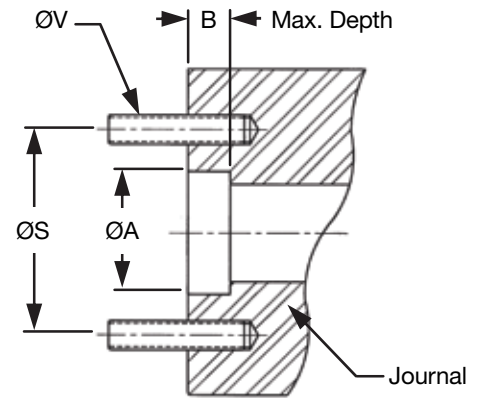
The high density carbon seal under compression and widely spaced bearing surfaces assure exceptionally long service life without lubrication. A key maintenance feature is the external seal wear indicator.

Journal Dimensions

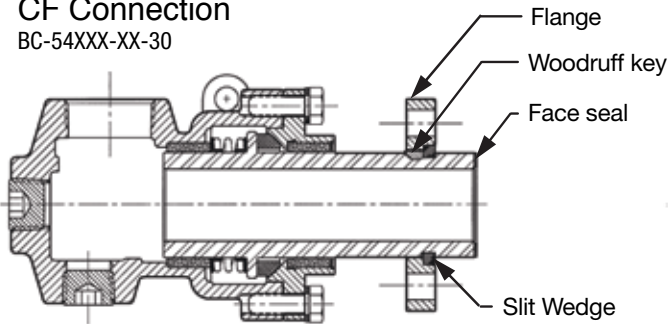
JOURNAL DIMENSIONS

Union Size	CF Connection		Quick Release Connection	
	ØA	B	ØA	B
1"	Ø1.408"-1.406"	1.052"	Ø1.283"-1.279"	.312"
1 1/2"	Ø2.099"-2.096"	1.052"	Ø1.877"-1.873"	.375"
2"	Ø2.724"-2.721"	1.052"	Ø2.325"-2.321"	.500"
2 1/2"	Ø3.099"-3.096"	1.052"	Ø2.845"-2.841"	.625"
3"	Ø3.724"-3.721"	1.052"	Ø3.439"-3.435"	.875"

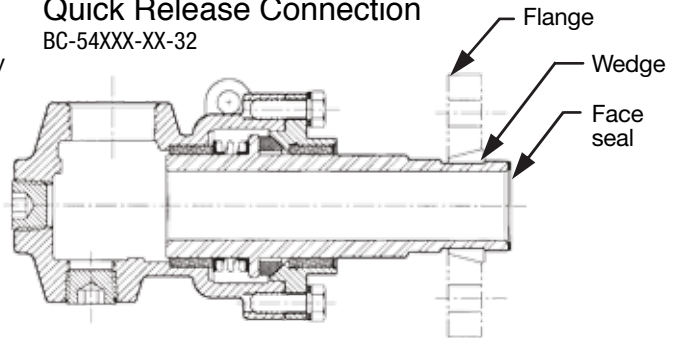
Quick Release Flanges and split wedges are available.
Contact DEUBLIN for more information.



CF Connection
BC-54XXX-XX-30



Quick Release Connection
BC-54XXX-XX-32



DEUBLIN Hot Oil Rotary Unions

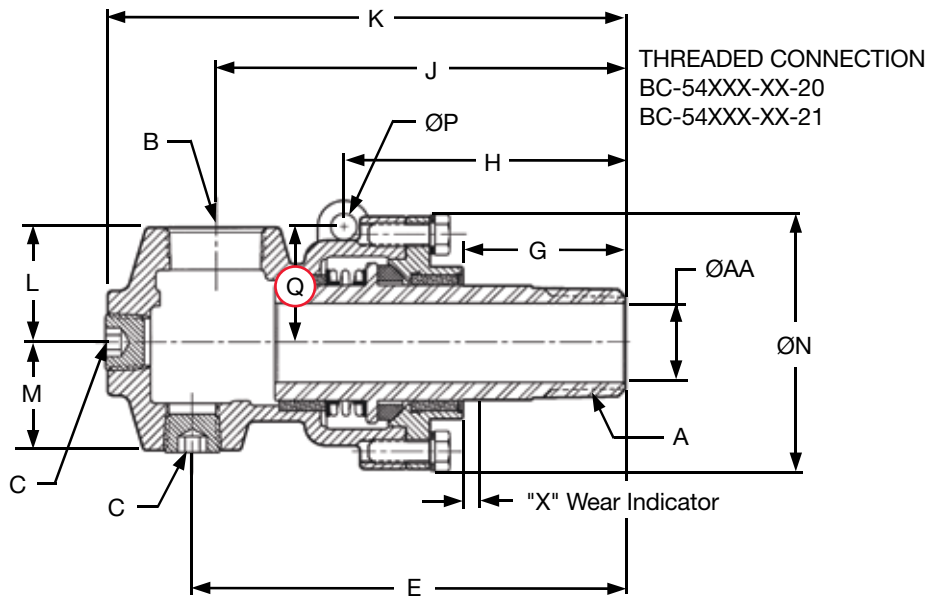
DEUBLIN's "Hot Oil" unions are recommended for applications using Dowtherm and other heat transfer fluids for circulating systems at temperatures up to +446°F (+230°C). The Type "CO" Hot Oil union has been fieldtested and proven to be the only satisfactory union among those tested. It is being successfully used on a number of machines designed by several manufacturers of paper, textile, and rubber goods machinery.

Many of the present oils used tend to "coke" at high temperatures and deposit material which settles in the union and must be periodically cleaned to remove this residue. In addition, hot spots in the system may generate this material. DEUBLIN recommends a 40-60 micron filter to be installed upstream from that rotary union to collect this material and prevent its introduction to the union.

DEUBLIN BC-54000 Series

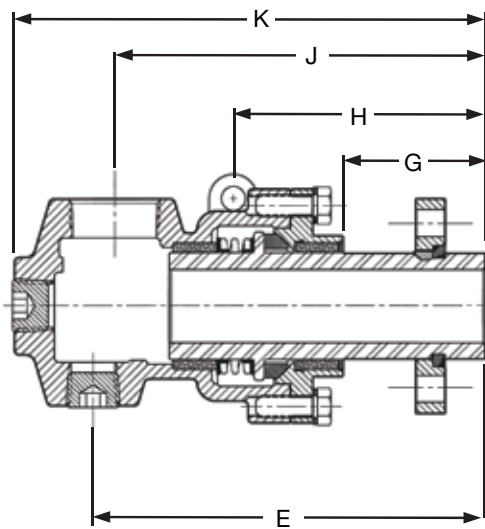


Ferrous Trim for Hot Oil
Recommended for Hot Oil
service to 100 psi (6.8 BAR)

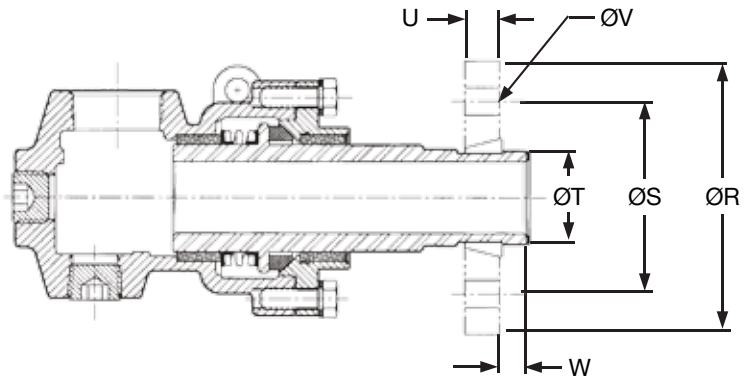


For BSPT threads:
Add a "B" to the end of the part number.
Example: BC-54100-08-20B

Union Size	Ferrous Trim Part Number	A NPT	B NPT	øAA	C NPT	E	G	H	J	K	L	M
1/2"	BC-54100-08-20	1/2" R.H.	1/2"	Ø.50"	1/4"	5.37"	1.73"	—	4.54"	5.87"	1.62"	1.16"
	BC-54100-08-21	1/2" L.H.	1/2"	Ø.50"	1/4"	5.37"	1.73"	—	4.54"	5.87"	1.62"	1.16"
3/4"	BC-54100-12-20	3/4" R.H.	3/4"	Ø.75"	1/2"	5.16"	1.68"	—	4.54"	6.17"	1.75"	1.25"
	BC-54100-12-21	3/4" L.H.	3/4"	Ø.75"	1/2"	5.16"	1.68"	—	4.54"	6.17"	1.75"	1.25"
1"	BC-54100-16-20	1" R.H.	1"	Ø1.00"	1/2"	5.96"	2.03"	4.01"	5.21"	7.01"	2.06"	1.25"
	BC-54100-16-21	1" L.H.	1"	Ø1.00"	1/2"	5.96"	2.03"	4.01"	5.21"	7.01"	2.06"	1.25"
	BC-54100-16-30	CF	1"	Ø1.00"	1/2"	6.69"	2.77"	4.75"	5.94"	7.75"	2.06"	1.25"
	BC-54100-16-32	QR	1"	Ø1.00"	1/2"	6.70"	2.78"	4.76"	5.95"	7.76"	2.06"	1.25"
1 1/4"	BC-54100-20-20	1 1/4" R.H.	1 1/4"	Ø1.25"	3/4"	6.99"	1.89"	4.37"	6.68"	8.60"	2.19"	1.78"
	BC-54100-20-21	1 1/4" L.H.	1 1/4"	Ø1.25"	3/4"	6.99"	1.89"	4.37"	6.68"	8.60"	2.19"	1.78"
	BC-54100-20-32	QR	1 1/4"	Ø1.25"	3/4"	8.55"	3.45"	5.93"	8.24"	10.16"	2.19"	1.78"
1 1/2"	BC-54100-24-20	1 1/2" R.H.	1 1/2"	Ø1.50"	3/4"	7.48"	2.12"	4.72"	7.04"	9.03"	2.44"	2.06"
	BC-54100-24-21	1 1/2" L.H.	1 1/2"	Ø1.50"	3/4"	7.48"	2.12"	4.72"	7.04"	9.03"	2.44"	2.06"
	BC-54100-24-30	CF	1 1/2"	Ø1.50"	3/4"	8.89"	3.53"	6.13"	8.45"	10.45"	2.44"	2.06"
	BC-54100-24-32	QR	1 1/2"	Ø1.50"	3/4"	8.89"	3.53"	6.13"	8.45"	10.45"	2.44"	2.06"
2"	BC-54100-32-20	2" R.H.	2"	Ø1.88"	1 1/4"	8.62"	2.19"	5.01"	8.06"	10.63"	2.75"	2.56"
	BC-54100-32-21	2" L.H.	2"	Ø1.88"	1 1/4"	8.62"	2.19"	5.01"	8.06"	10.63"	2.75"	2.56"
	BC-54100-32-30	CF	2"	Ø1.88"	1 1/4"	10.09"	3.66"	6.48"	9.53"	12.10"	2.75"	2.56"
	BC-54100-32-32	QR	2"	Ø1.88"	1 1/4"	9.71"	3.28"	6.10"	9.15"	11.72"	2.75"	2.56"
2 1/2"	BC-54100-40-20	2 1/2" R.H.	2 1/2"	Ø2.25"	1 1/4"	10.14"	2.91"	6.33"	9.76"	12.45"	3.00"	2.50"
	BC-54100-40-21	2 1/2" L.H.	2 1/2"	Ø2.25"	1 1/4"	10.14"	2.91"	6.33"	9.76"	12.45"	3.00"	2.50"
	BC-54100-40-30	CF	2 1/2"	Ø2.25"	1 1/4"	10.09"	3.66"	6.48"	9.53"	12.10"	3.00"	2.50"
	BC-54100-40-32	QR	2 1/2"	Ø2.25"	1 1/4"	10.77"	3.54"	6.96"	10.39"	13.08"	3.00"	2.50"
3"	BC-54100-48-20	3" R.H.	3"	Ø2.88"	1 1/2"	10.86"	3.05"	6.60"	10.67"	13.04"	3.62"	2.88"
	BC-54100-48-21	3" L.H.	3"	Ø2.88"	1 1/2"	10.86"	3.05"	6.60"	10.67"	13.04"	3.62"	2.88"
	BC-54100-48-30	CF	3"	Ø2.88"	1 1/2"	11.35"	3.55"	7.10"	11.16"	13.53"	3.62"	2.88"
	BC-54100-48-32	QR	3"	Ø2.88"	1 1/2"	11.36"	3.55"	7.10"	11.16"	13.54"	3.62"	2.88"



"CF" CONNECTION
BC-54XXX-XX-30



QUICK RELEASE CONNECTION
BC-54XXX-XX-32

ØN	ØP	Torque Rod O.S.D. Max.	Q	ØR	ØS	ØT	U	4X ØV	W	"X"	Weight	Union Size
Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	1/2"
Ø3.00"	—	—	—	—	—	—	—	—	—	.19"	3.5 lbs	
Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	3/4"
Ø3.38"	—	—	—	—	—	—	—	—	—	.19"	5 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	1"
Ø3.62"	Ø.50"	Ø.38"	1.75"	—	—	—	—	—	—	.25"	6 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø3.88"	Ø2.75"	Ø1.399"-1.401"	.75"	Ø.56"	1.092"	.25"	9 lbs.	
Ø3.62"	Ø.50"	Ø.38"	1.75"	Ø5.00"	Ø3.12"	Ø1.276"-1.278"	.56"	Ø.56"	.438"	.25"	9 lbs.	
Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	1 1/4"
Ø4.38"	Ø.62"	Ø.50"	2.09"	—	—	—	—	—	—	.25"	13 lbs	
Ø4.38"	Ø.62"	Ø.50"	2.09"	Ø5.50"	Ø3.50"	Ø1.620"-1.622"	.62"	Ø.56"	.50"	.25"	18 lbs.	1 1/2"
Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	—	—	—	—	—	—	.25"	15 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø4.88"	Ø3.62"	Ø2.091"-2.093"	.75"	Ø.69"	1.092"	.25"	19 lbs	
Ø4.75"	Ø.62"	Ø.50"	2.26"	Ø5.50"	Ø3.88"	Ø1.872"-1.870"	.69"	Ø.56"	.50"	.25"	19 lbs	2"
Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	—	—	—	—	—	—	.31"	26 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø5.50"	Ø4.25"	Ø2.714"-2.716"	.75"	Ø.69"	1.092"	.31"	31 lbs	
Ø6.00"	Ø.62"	Ø.50"	2.76"	Ø6.81"	Ø4.75"	Ø2.318"-2.320"	.75"	Ø.56"	.625"	.31"	34 lbs.	2 1/2"
Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	
Ø6.75"	Ø.75"	Ø.62"	3.06"	—	—	—	—	—	—	.25"	33 lbs.	
Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø5.88"	Ø4.62"	Ø3.089"-3.091"	.75"	Ø.75"	1.092"	.25"	40 lbs	
Ø6.75"	Ø.75"	Ø.62"	3.06"	Ø6.75"	Ø4.75"	Ø2.838"-2.840"	.88"	Ø.56"	.75"	.25"	42 lbs.	3"
Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	
Ø7.88"	Ø.94"	Ø.75"	3.62"	—	—	—	—	—	—	.25"	45 lbs.	
Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø6.50"	Ø5.25"	Ø3.714"-3.716"	.75"	Ø.69"	1.092"	.25"	50 lbs	
Ø7.88"	Ø.94"	Ø.75"	3.62"	Ø8.00"	Ø6.75"	Ø3.430"-3.732"	.94"	Ø.69"	.88"	.25"	57 lbs.	

DEUBLIN PLANE SWIVEL JOINTS



Handles single & multi-plane swivel movement with positive sealing. Available in 1" through 6" sizes.

- Two rows of widely spaced bearings support heavier loads.
- Three-piece design simplifies repair.
- Spring energized seals offer leaktight sealing at all pressures, including vacuum.
- Seal can be replaced without removing bearings.
- Available in three seal materials that are compatible with many gasses, fluids & chemicals.

DEUBLIN Plane Swivel Joints provide 360° movement between piping elements in one or more planes for conveying or transferring a wide range of fluids including oils, water, air, gasses and chemicals. Available in three types: threaded, welded and flanged to suit your application. Simple design permits ready installation and fast easy maintenance.

Easy Numbering System

BD-5241 0 - 16 - 01

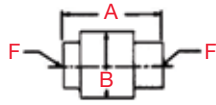
01	Buna-N Seal	-40 °F to +225 °F (-40 °C to +107 °C)
02	PTFE Seal	-20 °F to +325 °F (-30 °C to +162 °C)
06	Viton Seal	-20 °F to +300 °F (-30 °C to +150 °C)

Size Code	16	24	32	48	64	66
= in.	1"	1½"	2"	3"	4"	6"
= mm	25,4	38,1	50,8	76,2	101,6	152,4

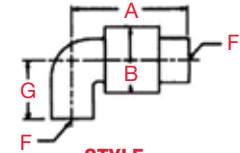
0	Carbon steel
1	Stainless steel (special orders only)

Style of connection and angles

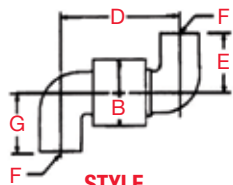
Styles and Sizes



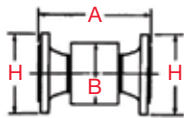
STYLE
Welded end BD-5141
Threaded end BD-5241



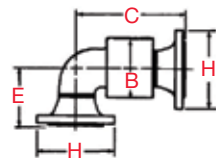
STYLE
Welded end BD-5142
Threaded end BD-5242



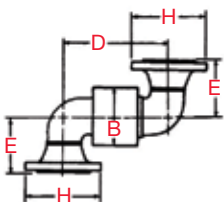
STYLE
Welded end BD-5143
Threaded end BD-5243



STYLE
Flanged end BD-5341



STYLE
Flanged end BD-5342



STYLE
Flanged end BD-5343

WELDED END STYLE (AVAILABLE IN 3" THRU 6")

Size Code	Joint Size	A	B	C	D	E	Maximum cold working Pressure psi (Kg/cm sqrd)
48	3"	12.88"	5.50"	11.95"	10.88"	3.00"	1000
	75mm	327mm	140mm	304mm	276mm	76mm	(70)
64	4"	13.22"	7.00"	13.22"	13.22"	4.00"	1000
	100mm	336mm	178mm	336mm	336mm	102mm	(70)
66	6"	16.75"	9.00"	18.75"	20.75"	6.00"	750
	150mm	425mm	229mm	476mm	527mm	152mm	(53)

THREADED END STYLE (AVAILABLE IN 1" THRU 3")

Size Code	Joint Size	A	B	C	D	E	G	Maximum cold working Pressure psi (Kg/cm sqrd)	Pipe Thread* F
16	1"	4.19"	2.50"	4.38"	4.59"	2.50"	2.50"	1250	1" NPT
	25mm	106mm	64mm	111mm	117mm	64mm	64mm	(77)	
24	1½"	4.62"	3.25"	5.06"	5.50"	3.25"	3.25"	1000	1½" NPT
	40mm	117mm	83mm	128mm	140mm	83mm	83mm	(70)	
32	2"	5.88"	4.00"	6.81"	7.50"	3.50"	3.69"	1000	2" NPT
	50mm	149mm	102mm	173mm	191mm	89mm	94mm	(70)	
48	3"	6.88"	5.62"	7.25"	8.40"	4.69"	4.69"	1000	3" NPT
	75mm	175mm	143mm	184mm	213mm	119mm	119mm	(70)	

*also available in BSPT threads

FLANGED END STYLE (AVAILABLE IN 3" THRU 6")

Size Code	Joint Size	A	B	C	D	E	H	Maximum cold working Pressure psi (Kg/cm sqrd)
48	3"	10.38"	5.50"	10.70"	10.95"	5.75"	7.50"	275
	75mm	264mm	140mm	304mm	278mm	146mm	191mm	(19)
64	4"	11.22"	7.00"	12.47"	13.22"	7.12"	9.00"	275
	100mm	285mm	178mm	318mm	336mm	181mm	229mm	(19)
66	6"	15.75"	9.00"	18.75"	20.75"	9.50"	11.00"	275
	150mm	400mm	229mm	476mm	527mm	241mm	279mm	(19)

Supplied with ANSI 150 lb. Flange pressure temperature ratings for over +100 °F (37.5 °C) Special flanges available. Contact DEUBLIN.

DEUBLIN SELF-ALIGNING SWIVEL JOINTS



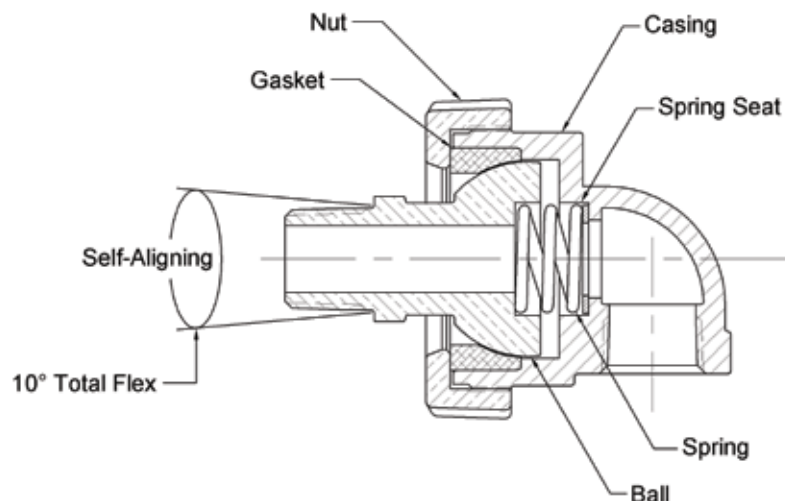
Handles rotary and angular alignment motion with positive sealing.

- 10° angular flexibility permits positive positioning of lines.
- Outperforms and outlasts flexible hose with lower pressure drops.
- Faster and easier piping installation. Fabrications simplified.
- Eliminate the hazards of leaking pipe connections or catastrophic hose failures.
- Dog-leg arrangements accommodate hinged and lifting motions of presses.

DEUBLIN is recognized as the pioneer and leader in the development and manufacture of spring-loaded, single-seat Self-Aligning Swivel Joints. These unique products handle 360° rotating and 10° angular movement between machinery and pipe work.

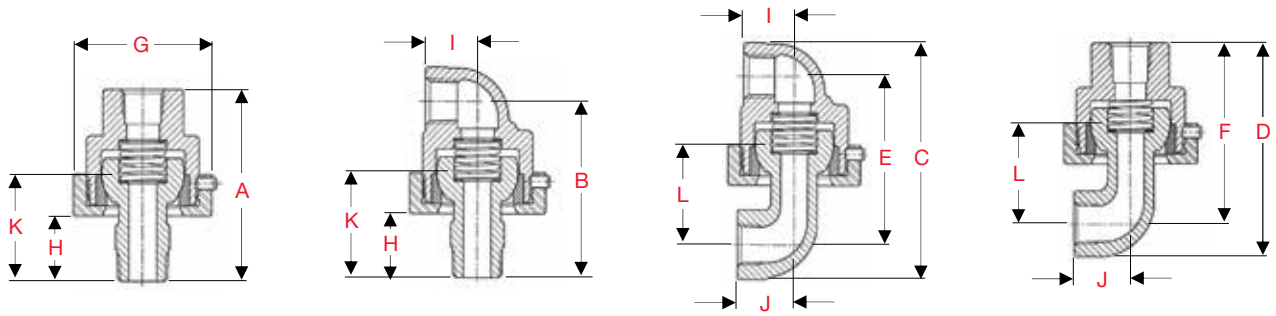
DEUBLIN Self-Aligning Swivel Joints convey hot and cold water, alternating steam and water and heat transfer fluids.

In-Depth Look



DEUBLIN Standard Series

Self-Aligning Swivel Joints built for steam, hot oil, water and alternating steam and water service.



STYLE 7S-8CS

- * BE-32001-xx-xx
- ** BE-32008-xx-xx
- *** BE-33004-xx-xx

STYLE 7AS-8CS

- * BE-32003-xx-xx
- ** BE-32011-xx-xx
- *** BE-33008-xx-xx

STYLE 7AS-8BS

- * BE-32002-xx-xx
- ** BE-32010-xx-xx
- *** BE-33010-xx-xx

STYLE 7S-8BS

- * BE-32000-xx-xx
- ** BE-32007-xx-xx
- *** BE-33006-xx-xx

- * Basic assembly number—Standard Series, All Bronze, available in 1/2" (13mm) and 3/4" (19mm) sizes. Dimensions located in Table 1.
- ** Basic assembly number—Standard Series, Malleable Iron Casing with Bronze Nut & Ball. Available in 1/2" (13mm) to 1-1/2" (38mm) sizes. Dimensions located in Table 1.
- *** Basic assembly number—Series 600, All Steel, available in 1-1/4" (32mm) and 1-1/2" (38mm) sizes. Dimensions located in Table 2.

STANDARD SERIES (INCHES & MM)

Size Code	Joint Size	A	B	C	D	E	F	G	H	I	J	K	L
8	1/2" 15mm	3.38" 86mm	3.38" 86mm	4.88" 124mm	3.66" 93mm	3.04" 77mm	3.04" 77mm	2.58" 66mm	1.32" 34mm	.97" 25mm	1.19" 30mm	2.22" 56mm	1.88" 48mm
12	3/4" 20mm	3.80" 96mm	3.77" 96mm	5.26" 134mm	4.48" 114mm	3.64" 92mm	3.67" 93mm	3.21" 92mm	1.42" 36mm	1.19" 30mm	1.31" 33mm	2.50" 63mm	2.37" 60mm
16	1" 25mm	4.69" 119mm	4.16" 106mm	6.00" 152mm	5.11" 130mm	4.10" 104mm	4.63" 118mm	3.62" 92mm	1.63" 41mm	1.50" 38mm	1.50" 38mm	2.81" 71mm	2.75" 70mm
20	1-1/4" 32mm	4.89" 124mm	4.70" 119mm	7.34" 186mm	6.31" 160mm	5.06" 129mm	5.25" 133mm	3.87" 98mm	1.59" 40mm	1.69" 43mm	1.81" 46mm	2.80" 71mm	3.16" 80mm
24	1-1/2" 40mm	5.56" 141mm	5.44" 138mm	7.55" 192mm	6.36" 162mm	5.06" 129mm	5.18" 132mm	5.00" 127mm	2.15" 54mm	2.16" 55mm	2.31" 59mm	3.53" 90mm	3.15" 80mm

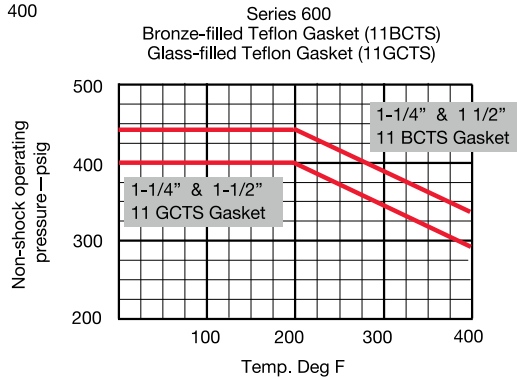
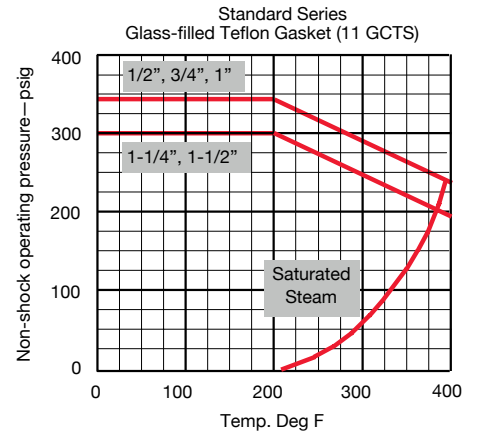
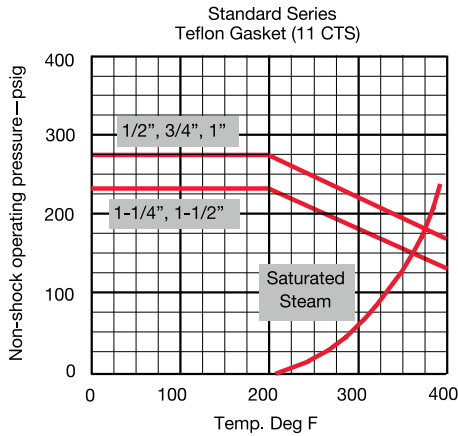
DEUBLIN 600 Series / All Steel

Series 600 Self-Aligning Swivel Joints are designed for high-pressure hydraulic service, alternating high-pressure oil and steam. Available in socket weld ends on special request. Contact DEUBLIN.

600 SERIES / ALL STEEL (INCHES & MM)

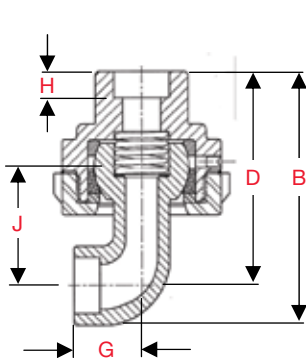
Size Code	Joint Size	A	B	C	D	E	F	G	H	I	J	K	L
20	1-1/4" 32mm	5.38" 137mm	5.28" 134mm	7.53" 191mm	6.40" 163mm	5.28" 134mm	5.34" 136mm	4.49" 114mm	1.88" 48mm	2.03" 52mm	2.12" 54mm	3.19" 81mm	3.18" 81mm
24	1-1/2" 40mm	6.23" 158mm	6.19" 157mm	8.59" 218mm	7.23" 184mm	6.03" 153mm	6.04" 153mm	5.00" 127mm	2.25" 57mm	2.25" 57mm	2.62" 67mm	3.88" 99mm	3.69" 94mm

Operating Data

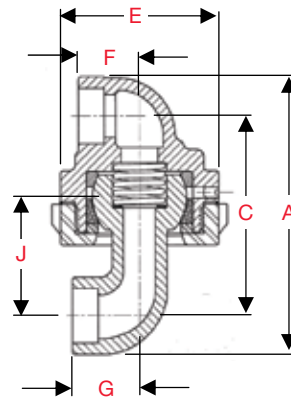


DEUBLIN 600 Series / All Steel, Injected Flaked Graphite Sealant

Designed for hot oil and high-pressure steam applications. These joints come standard with socket weld ends. Available with flanged ends on special request. Contact DEUBLIN.



STYLE 7S-8BS
BE-43006-xx-41



STYLE 7AS-8BS
BE-43010-xx-41

OPERATING DATA

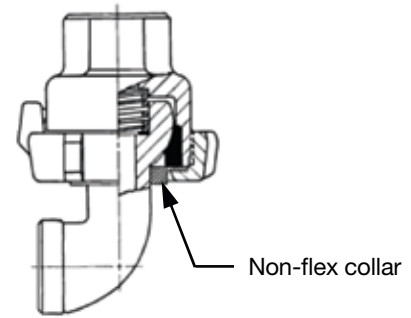
Hot Oil	200 psig Max. (14 kg/cm ²) 446 °F Max. (230 °C)
Steam	700 psig Max. (49 kg/cm ²) 446 °F Max. (230 °C)

600 SERIES / ALL STEEL, GRAPHITE INJECTED (INCHES & MM)

Size Code	Joint Size	A	B	C	D	E	F	G	H	J
20	1-1/4"	7.53"	6.41"	5.28"	5.35"	5.00"	2.03"	2.12"	.56"	3.19"
	32mm	191mm	163mm	134mm	136mm	127mm	52mm	54mm	14mm	81mm
24	1-1/2"	8.67"	7.60"	6.12"	6.38"	5.00"	2.31"	2.69"	.50"	3.81"
	40mm	220mm	193mm	155mm	162mm	127mm	59mm	68mm	.50"	97mm

DEUBLIN “Non-flex” Collar

The “Non-Flex” Type Swivel Joints are available in the same styles, sizes, and materials as standard swivel joints, but a steel split collar is added between the nut and the gasket. The neck of the ball is machined to provide a bearing with this collar. This allows 360° rotation, but eliminates the 10° side flexing. In dogleg, or three-joint assembly, it is recommended that the “Non-Flex” swivel joint be used only at the top anchor point of the assembly. Regular swivel joints at the other two points relieve binding and allow for piping misalignment.



STYLE N78-8BS
BE-43506-xx-xx

Easy Numbering System

To order DEUBLIN swivel joint, state the complete part number as follows: First, state the Basic Assembly Number, second, indicate the Size Code, third, add the Gasket Code number.

BD-XXXXX – XX – XX

Gasket Code	Gasket Material	Gasket
23	PTFE	11CTS
24	Glass-filled PTFE	11GCTS
51	Bronze-filled PTFE	11BCTS

Size Code	18	12	16	20	24
= in.	½"	¾"	1"	1¼"	1½"
= mm	12,7	19,1	25,4	31,8	38,1

Basic Part Number

- BE-32xxx - Standard Series
- BE-325xx - Standard Series with non-flex collar
- BE-33xxx - Series 600, all Steel
- BE-335xx - Series 600, all Steel with non-flex collar
- BE-43xxx - Series 600, all Steel with injected graphite Seal
- BE-435xx - Series 600, all Steel with injected graphite Seal & with non-flex collar

WARNING

DEUBLIN unions should not be used to convey flammable media (flash point ≤ 140°F or 60°C) as leakage may result in explosions or fires. DEUBLIN unions should be used in accordance with standard safety guidelines for the media, and in a well-ventilated area. The use of our product on hazardous or corrosive media is strictly forbidden.



Since its establishment in 1945, Deublin has consistently adhered to a policy of producing the best product of its kind in the market. The result of this policy has been constant growth through the years. For this progress we are grateful to our many loyal customers. We cordially invite you to visit our modern manufacturing facilities in Waukegan, Illinois; Hofheim, Germany; Monteveglio, Italy; and Dalian, China.

Sincerely,

Donald L. Deubler
Chairman of the Board



Global Headquarters in Waukegan, Illinois, U.S.A.



Hofheim, Germany



Monteveglio, Italy



Dalian, China



Deublin products & services are available throughout the world.

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