

Table of Contents

Swivel Joint Overview	3-7
New products	4
Operations/Service	5
Swivel color and etching identification	6
Swivel joint styles	7
O-Ring Swivel Joints	8-21
Overview	8
Exploded view / Part number key	8
Configurations / Parts	9-19
Rebuild kits	20
Seal replacement	21
V-Ring Swivel Joints	22-32
Overview	22
Exploded view / Part number key	22
Configurations / Parts	23-30
Rebuild kits	31
Seal replacement	32
Cap Seal Swivel Joints	33-39
Overview / Exploded view	33
Part number key	34
Configurations / Parts	34-37
Seal replacement	38-39
Split Flange Swivel Joints	40-48
Overview	40
Exploded view / Part number key	40
Configurations / Parts	41-47
Components	47
Seal replacement	48
High Capacity Split Flange Swivel Joints	49-57
Overview	49
Exploded view / Part number key	49
Configurations / Parts	50-55
Components	56
Seal replacement	57
Loading Arms	58-61
Overview	58
Configurations / Parts	58-59
Base swivels with counterbalance	60
Loading arm swivels	61

Table of Contents/Swivel Joint Overview



Table of Contents

Swivel Joint Accessories	62-67
Flanges / Gaskets	62-64
Swivel joint grease	64
Pipe fittings, half couplings, grease fittings, set screws	65
Handle kits	66
Thread sealant	66
Joint sealant gasket materials	66
PTFE tape	
Safety & Technical	68-71
Bolt tightening sequence	68
Flange diagrams	68
ANSI flange dimensions	69
Pressure rating chart	70
Limited warranty / Safety	71

Swivel Joints Overview

Applications

- Used wherever a leak-proof swivel connection is needed in pipelines or in combination with hoses to eliminate hose twisting.
- Ideal for a wide range of industries including petroleum, petrochemical, refining, mining, distilling, paint, farm irrigation and fertilizing, wastewater treatment plants, and food and beverage process equipment. Dixon® swivel joints are commonly used in blending plants, drum filling applications, fluid and dry bulk transfer, vacuum trucks, oil and gas trucks and water trucks. Larger swivels can be found in the steel industry, marine bulk transfer, and many more applications.

Features

- · Full 360° rotational movement
- 100% full penetration weld
- · Wide spacing between dual ball bearing raceways ensures greater load bearing capacity
- Precision-machined design ensures alignment and years of trouble-free service
- · O-ring dust seal protects the ball races and seals chamber from outside elements
- · Radius elbow design ensures a smooth flow path
- All swivels undergo rigorous hydrostatic testing prior to shipment to ensure performance and reliability, with the exception of weld end swivels, which are prepared for customer-specific testing after installation.

Additional Options

- End configurations: male NPT, female NPT, 150# flange, TTMA flange, grooved, weld end, and others upon request.
- · Seal options: nitrile rubber, FKM, PTFE, EPDM, FDA nitrile rubber, and low temperature FKM
- Ball bearing materials: carbon steel, 440 stainless steel, and 316 stainless steel
- Grease materials: Lithium, FDA approved/food grade, silicone, and low temperature grease
- Swivels that include oxygen, steam, submerged, or vacuum service can be specifically designed for unique applications (special order)
- Swivel joint types: O-ring, V-ring, Split Flange, Cap Seal, and High Capacity Split Flange
- · Locking mechanism for split flange swivels
- Epoxy paint
- · Re-build kits available
- · Custom swivel options available; contact Dixon at 877.963.4966

New Products

14"-24" Cap Seal Swivel Joints



14" V-Ring Swivel Joints



Aluminum Nose Pieces for Split Flange Swivel Joints



High Capacity Split Flange Swivel Joints



4" Ductile Iron
O-Ring Style Swivel
Joints



2-1/2" O-Ring Swivel Joints



4" Aluminum Split Flange Swivel Joint Bearing Packs



Total Rebuild Kits for O-Ring Swivels



Total Rebuild Kits for V-Ring Swivels



TTMA Gasket Kits



150 lb. Flange Gasket Kits



Swivel Joint Grease





Operation / Service

Dixon® swivels are recommended for use at the following maximum Non-Shock Cold Working Pressures (NSCWP) provided in **PSI** at ambient temperature **70°F** (**21°C**) for 1" – 24" sizes:

See pressure rating chart on pg. 70



- · Vacuum/suction see pg. 70 for details
- When using flanged ends, the pressure rating will be reduced to coincide with that of the flange being used. Carbon steel and stainless steel 150# flanges are recommended for use at 275 PSI maximum and 300# flanges at 740 PSI at ambient temperature 70°F (21°C).
- TTMA flanges are recommended for use to 150 PSI maximum at ambient temperature 70°F (21°C).
- Lubrication should be performed periodically, depending on service and operation conditions. Biannually is normally sufficient.
- All dimensions are approximate. Where critical, consult Dixon.

Use with Hose

When using swivel joints to compensate for hose twist (e.g., Style 20 or Style 60), careful consideration is needed. The hose must be stiff enough to generate sufficient torque to activate the swivel before kinking occurs.

In many cases, lateral movement-induced twist can be resolved with a swivel joint (e.g., Style 40 or Style 30). If not, hose swivels may offer a solution. These non-ball bearing designs require less torque for rotation but are not intended for load-bearing applications.

It's important to note that some hoses, such as many metal hoses, may not produce enough torque to rotate even a hose swivel. On the other hand, stiffer hoses, like many armored hoses, can easily turn most swivels.

Pricing

Pricing is available upon request. Please contact Dixon for assistance with pricing and selecting the right equipment for your specific application.

Each swivel joint is custom-built to order, so returns are generally not accepted. However, return requests will be considered on a case-by-case basis. Approved returns will be subject to a restocking fee of 15%, along with any additional costs incurred.

S.T.A.M.P.E.D.

When fabricating and specifying assemblies ask the following questions:

Size: What is the I.D. (inside diameter)? What is the O.D. (outside diameter)? What is the overall length of the

assembly required?

Temperature: What is the temperature range of the media (product) that is flowing through the assembly? What is the

temperature range of the environment that surrounds the outside of the assembly?

Application: How is the assembly actually being used? Is it a pressure application? Is it a vacuum (suction) application? Is it

a gravity flow application? Are there any special requirements that the assembly is expected to perform? Is the assembly being used in a horizontal or vertical position? Are there any pulsations or vibrations acting on

the assembly?

Media: What is the media/material that is flowing through the assembly? Being specific is critical. Check for: Abrasive

materials, chemical compatibility, etc.

Pressure: What is the maximum pressure including surges (or, maximum vacuum) that this assembly will be subjected

to? Always rate the maximum working pressure of your assembly by the lowest rated component in the

system.

Ends: What end connection has been requested by the user? Are they the proper fittings for the application?

Dixon: Be Safe: Any questions on application, use, or assembly, call 877.963.4966.

Color Identification

Color identification is important in manufacturing processes because it aids in quickly distinguishing differences between parts, materials, and assembly stages, thereby reducing errors and improving efficiency. At times color identification can also clarify the type of media that is flowing through a piping system. However, for the standard Dixon Swivel Joints the color or finish aids in identifying the material and seal design.

O-Ring











Aluminum

Brass

Ductile Iron

Carbon Steel

Stainless Steel









Aluminum

Carbon Steel Split Flange / High Capacity

Stainless Steel





Aluminum







Carbon Steel

Stainless Steel

Part Number Etching Identification

Dixon Swivel Joints are etched with their unique part number for accurate identification. This practice supports quality control and inventory management. Additionally, the etched identification helps simplify maintenance and replacement, as it allows quick reference to specific parts in technical documentation and service records.



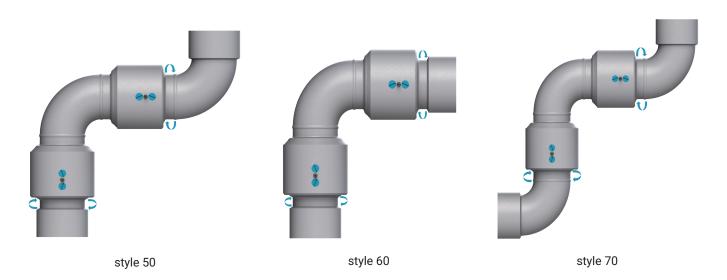


Swivel Joint Styles

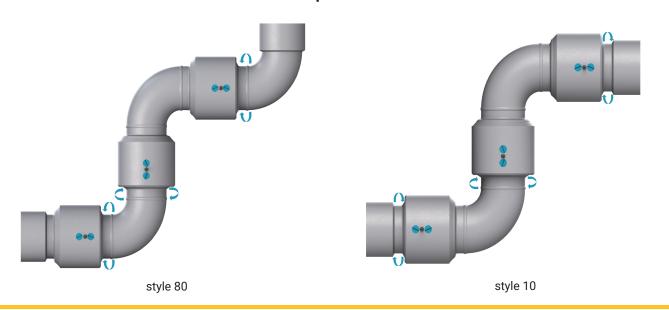
Single Plane



Double Plane



Triple Plane



O-Ring Swivel Joints

Applications

 Commonly used in tote/drum loading, loading arms, hose and steam, water supply lines, tank trucks, compressed air, asphalt, irrigation, suction and vacuum, petroleum, and mining.

Sizes

• 1" - 4"

Features

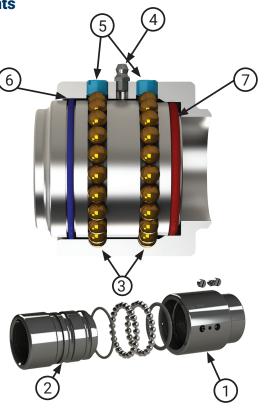
- O-ring pressure seal ensures a leak-proof seal and smooth rotation with lower torque
- · Smooth moving seal for high-volume drum and tote loading
- Available working pressure ratings up to 1,000 PSI, based on material and end connections
- Available end connections include: 150 lbs. and 300 lbs. flanges, FNPT, MNPT, butt weld, TTMA, and others upon request
- End connections and materials offered may vary based on size, contact Dixon® for details

Materials

 Available materials include carbon steel, 316L stainless steel, aluminum, brass, and ductile iron

Bill of Materials

- 1. Body
- 2. Sleeve
- 3. Ball bearings
- 4. Grease fitting
- 5. Ball retainer screws
- 6. O-ring (dust seal)
- 7. O-ring (pressure seal)



O-Ring Swivel Joint Numbering System

2	20	F	Х	F	ос	0	0	0	0	0
Sizes Inches	Style*	End Connection	x	End Connection	Material	Pressure Seal	Dust Seal	Retainers	Ball Bearings	Grease
1 = 1"	20	F (FNPT)	х	F (FNPT)	AL = aluminum	0 = nitrile rubber	0 = nitrile rubber	0 = no retainer	0 = carbon steel	0 = lithium
125 = 1-1/4"	30	W (weld)	x	W (weld)	BR = brass	1 = FKM	1 = FKM		1 = 440 stainless steel	1 = food grade
150 = 1-1/2"	40	FG (150#)	x	FG (150#)	MI = ductile iron	2 = PTFE			2 = 316 stainless steel	2 = silicone
2 = 2"	50	PF (300#)	х	PF (300#)	OC = O-ring carbon steel	3 = EPDM	3 = EPDM			3 = Tribolube
250 = 2-1/2"	60	TF (TTMA)	x	TF (TTMA)	OS = O-ring 316 stainless steel	4 = FDA nitrile rubber	4 = FDA nitrile rubber			4 = low temperature
3 = 3"	70	BP (BSPP)	х	BP (BSPP)		5 = No seal	5 = No seal			5 = no grease
4 = 4"	80	BT (BSPT)	х	BT (BSPT)		A = Low Temp FKM				
	10	G (groove)		, - ,						
		M (MNPT)	Х	M (MNPT)						

^{*}If ordering a handle, the zero would be replaced by H or B. Use "H" for a heavy-duty D-style shovel handle.

NOTE: Other end connections or seals are available upon request.

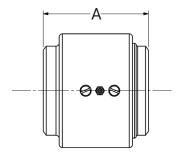
- Brass O-ring: 1-1/2" 3"
- Ductile iron O-ring: 1-1/2" 4"
- Standard grease fitting without ball check on all O-ring Swivel Joint materials except 316 stainless steel. Ask for check ball if required. 316 SS O-ring Swivel Joints include SS grease fitting with ball check.
- Dixon® does not offer 4" O-ring configuration for stainless steel material.



O-Ring Style 20 - Weld x Weld

Size	Part #	Material	Weight (lbs.)	Dimension A	
1"	120WXW	OC - carbon steel	3	2.7/0"	
ı	IZUVVAVV	OS - stainless steel	3	2-7/8"	
		OC - carbon steel	3	2.2/16"	
1-1/2"	15020WXW	OS - stainless steel	3	3-3/16"	
		AL - aluminum	1	3-13/16"	
	220WXW	OC - carbon steel	5	2.0/16"	
2"		OS - stainless steel	5	3-9/16"	
		AL - aluminum	3	5-3/8"	
		OC - carbon steel	9		
2-1/2"	25020WXW	OS - stainless steel	9	4 -1/8"	
		AL - aluminum	4		
		OC - carbon steel	7	4.4.0"	
3"	320WXW	OS - stainless steel	7	4-1/8"	
		AL - aluminum	4	5-11/16"	
4"	40014/2014	OC - carbon steel	21	6"	
	420WXW	AL - aluminum	7	7-5/16"	

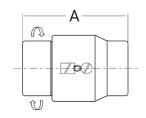


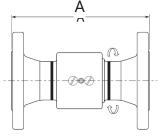


O-Ring Style 20 - FNPT x FNPT

Size	Part #	Material	Weight (lbs.)	Dimension A
		OC - carbon steel	3	
1"	120FXF	OS - stainless steel	3	3-15/16"
		AL - aluminum	1	
1-1/4"	12520FXF	AL - aluminum	1	3-31/32"
		OC - carbon steel	4	
		OS - stainless steel	4	
1-1/2"	15020FXF	AL - aluminum	1	4"
		BR - brass	4	
		MI - ductile iron	4	
		OC - carbon steel	6	
		OS - stainless steel	7	
2"	220FXF	AL - aluminum	4	5-9/16"
		BR - brass	9	
		MI - ductile iron	8	
		OC - carbon steel	14	
2-1/2"	25020FXF	OS - stainless steel	14	7-25/32"
		AL - aluminum	6	
		OC - carbon steel	9	5-7/8"
		OS - stainless steel	9	5-7/6
3"	320FXF	AL - aluminum	4	
		BR - brass	11	5-29/32"
		MI - ductile Iron	10	
		OC - carbon steel	34	10-3/4"
4"	420FXF	AL - aluminum	7	7.5/0"
		MI - ductile Iron	18	7-5/8"





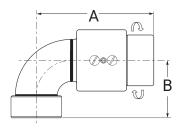


O-Ring Style 20 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)	Dimension A
1"	120FGXFG	OS - stainless steel	- 8	7.0/22"
ı	IZUFGXFG	OC - carbon steel	8	7-9/32"
		OC - carbon steel	12	8-1/16"
1-1/2"	1520FGXFG	OS - stainless steel	12	6-1/10
		AL - aluminum	4	8-11/16"
	220FGXFG	OC - carbon steel	17	8-17/32"
2"		OS - stainless steel	17	0-17/32
		AL - aluminum	8	10-3/8"
		OC - carbon steel	27	
2-1/2"	2520FGFG	OS - stainless steel	27	9 -5/8"
		AL - aluminum	10	
		OC - carbon steel	31	9-5/8"
3"	320FGXFG	OS - stainless steel	31	9-5/6
		AL - aluminum	10	11-5/32"
4"	420ECVEC	OC - carbon steel	51	12"
4"	420FGXFG	AL - aluminum	13	13-5/16"

O-Ring Style 30 - FNPT x FNPT





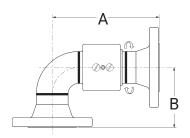
Size	Part #	Material	Weight (lbs.)	Dimensions	
Size	Part #	Material	Weight (ibs.)	Α	В
1"	130FXF	OC - carbon steel	4	4-13/32"	2-3/16"
ı	ISUFAF	OS - stainless steel	3	5-29/32"	2-11/16"
		OC - carbon steel	5	E 7/16"	2.15/22"
		OS - stainless steel	6	5-7/16"	3-15/32"
1-1/2"	15030FXF	AL - aluminum	2		
		BR - brass	5	4-11/16"	3"
		MI - ductile iron	5		
		OC - carbon steel	8	6 01 /00"	3-1/4"
		OS - stainless steel	6	6-21/32"	
2"	230FXF	AL - aluminum	4		2-7/8"
		BR - brass	10	6-3/16"	
		MI - ductile iron	9		
		OC - carbon steel	16		4-11/32"
2-1/2"	25030FXF	OS - stainless steel	16	8-15/32"	
		AL - aluminum	6		
		OC - carbon steel	13	8-9/64"	4-13/16"
		OS - stainless steel	13	8-9/04	4-13/10
3"	330FXF	AL - aluminum	5		
		BR - brass	15	7-1/16"	3-7/8"
		MI - ductile iron	13		
4"	430FXF	OC - carbon steel	40	12-3/8"	6-3/8"
4	430FAF	AL - aluminum	9	9-1/8"	4-3/4"



O-Ring Style 30 - 150# Flange x 150# Flange

0:	D #	Manager	\\\-:- -+ (\)	Dimensions		
Size	Part #	Material	Weight (lbs.)	A	В	
1"	12050750	OC - carbon steel	8	6-3/32"	3-3/16"	
ı	130FGXFG	OS - stainless steel	8	6-19/32"	3-11/16"	
		OC - carbon steel	12	7-7/8"	111/16"	
1-1/2"	1530FGFG	OS - stainless steel	12	7-7/8	4-11/16"	
		AL - aluminum	4	7-1/32"	5-11/32"	
		OC - carbon steel	20	8-1/32"	4-1/2"	
2"	230FGXFG	OS - stainless steel	20	0-1/32	4-1/2	
		AL - aluminum	8	8-5/8"	5-9/32"	
		OC - carbon steel	29		5 -1/4"	
2-1/2"	2530FGFG	OS - stainless steel	29	9 -3/8"		
		AL - aluminum	11			
		OC - carbon steel	33	0.7/0"	F 0 / 4"	
3"	330FGXFG	OS - stainless steel	33	9-7/8"	5-3/4"	
		AL - aluminum	13	9-11/16"	6-15/32"	
4"	420F0VF0	OC - carbon steel	57	13"	7"	
4"	430FGXFG	AL - aluminum	14	11-31/32"	7-19/32"	

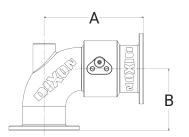




O-Ring Style 30 - TTMA Flange x TTMA Flange

Size	Part #	Motorial	Maight (lba)	Dimensions		
Size	Part #	Material Weight (lbs.)		Α	В	
		OC - carbon steel	8	5-5/8"	5-1/8"	
2"	230TFXTF	OS - stainless steel	7	5-5/6	3-1/6	
		AL - aluminum	5	5-5/8"	5-1/8"	
		OC - carbon steel	14	0.1/0"	4-3/8"	
3"	330TFXTF	OS - stainless steel	15	8-1/2"		
		AL - aluminum	6	7-3/4"	4-15/16"	
4"	42075	OC - carbon steel	30	10-1/4" 4	4-1/4"	
4	430TFXTF	AL - aluminum	12	8-7/8"	5-17/32"	

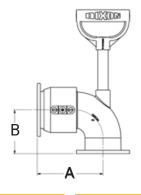




O-Ring Style 30 - TTMA Flange x TTMA Flange with D-Handle

Size	Dowt #	Manadal	Weight	Dimensions		
	Part #	Material	(lbs.)	Α	В	
	2" 23HTFXTF	OC - carbon steel	10	E E/0"	E 1 /0"	
2"		OS - stainless steel	9	5-5/8"	5-1/8"	
		AL - aluminum	7	5-5/8"	5-1/8"	
		OC - carbon steel	17	0.1/0"	4-3/8"	
3"	33HTFXTF	OS - stainless steel	17	8-1/2"	4-3/6	
		AL - aluminum	8	7-3/4"	4-15/16"	
4" 43HTFXTF	401 ITEVTE	OC - carbon steel	33	10-1/4"	4-1/4"	
	AL - aluminum	14	8-7/8"	5-17/32"		





O-Ring Style 40 - FNPT x FNPT



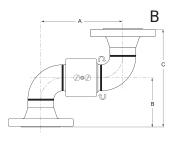


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	C B B

Size	Part #	Motorial	Material Weight (lbs.)	Dimensions			
Size	Part #	iviateriai	Weight (ibs.)	Α	В	С	
1"	140FXF	OC - carbon steel	4	4-59/64"	2-3/16"	4-3/8"	
I	140575	OS - stainless steel	4	5-59/64"	2-11/16"	5-3/8"	
		OC - carbon steel	7	7 11 /16"	2.15/22"	6 1 5 / 1 6 "	
		OS - stainless steel	7	7-11/16"	3-15/32"	6-15/16"	
1-1/2"	15040FXF	AL - aluminum	2				
		BR - brass	7	6-1/8"	3"	6"	
		MI - ductile iron	6				
		OC - carbon steel	9	7 17 /00"	0.1/4"	6.1/0"	
		OS - stainless steel	9	7-17/32"	3-1/4"	6-1/2"	
2"	240FXF	AL - aluminum	5		2-7/8"		
		BR - brass	11	6-11/16"		5-3/4"	
		MI - ductile iron	9				
		OC - carbon steel	18		4-11/32"	8-21/32"	
2-1/2"	25040FXF	OS - stainless steel	18	9 -1/8"			
		AL - aluminum	7				
		OC - carbon steel	18	10-1/8"	4-13/16"	9-5/8"	
		OS - stainless steel	18	10-1/6	4-13/10	9-5/6	
3"	340FXF	AL - aluminum	6				
		BR - brass	18	8-1/4"	3-7/8"	7-3/4"	
		MI - ductile iron	15				
4"	440EVE	OC - carbon steel	45	14"	6-3/8"	12-3/4"	
4	440FXF	AL - aluminum	10	10-5/8"	4-3/4"	9-1/2"	

O-Ring Style 40 - 150# Flange x 150# Flange





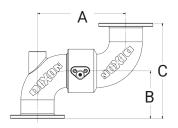
Cino	Dort #	Material	Weight (lbs.)		Dimensions	
Size	Part #	Material	Weight (lbs.)	Α	В	С
1"	140FGXFG	OC - carbon steel	9	4-59/64"	3-3/16"	6-3/8"
ı	140FGXFG	OS - stainless steel	9	5-59/64"	3-11/16"	7-3/8"
		OC - carbon steel	13	7 11 /16"	111/16"	0.270"
1-1/2"	15040FGFG	OS - stainless steel	13	7-11/16"	4-11/16"	9-3/8"
		AL - aluminum	4	6-1/8"	5-11/32"	5-11/16"
		OC - carbon steel	21	7 17 (00"	4.1./0"	9"
2"	2" 240FGXFG	OS - stainless steel	21	7-17/32"	4-1/2"	9
		AL - aluminum	8	6-11/16"	5-9/32"	10-9/16"
		OC - carbon steel	31			10 -1/2"
2-1/2"	2540FGFG	OS - stainless steel	30	9-1/8"	5 -1/4"	
		AL - aluminum	11			
		OC - carbon steel	40	10.1/0"	E 0 / 4"	11 1 (0)
3"	340FGXFG	OS - stainless steel	40	10-1/8"	5-3/4"	11-1/2"
		AL - aluminum	11	8-1/4"	6-5/8"	13-1/4"
4"	440F0VF0	OC - carbon steel	62	14"	7"	14"
4	4" 440FGXFG	AL - aluminum	16	10-5/8"	7-9/16"	15-1/8"



O-Ring Style 40 - TTMA Flange x TTMA Flange

Size	Part #	Material	Weight	Dimensions			
Size	Part #	Materiai	(lbs.)	Α	В	С	
	2" 240TFXTF	OC - carbon steel	8	7-17/32"	5-1/8"	10-1/4"	
2"		OS - stainless steel	8	7-17/32	5-1/6	10-1/4	
		AL - aluminum	4	6-11/16"	5-1/8"	10-1/4"	
		OC - carbon steel	17	10-1/8"	4-3/8"	8-3/4"	
3"	340TFXTF	OS - stainless steel	18	10-1/6	4-3/6	0-3/4	
		AL - aluminum	7	9-9/64"	4-15/16"	9-7/8"	
4"	4" 440TFXTF	OC - carbon steel	36	14"	4-1/4"	8-1/2"	
4		AL - aluminum	17	10-5/8"	6-9/16"	13-1/8"	

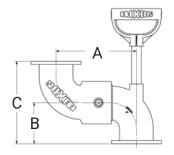




O-Ring Style 40 - TTMA Flange x TTMA Flange with D-handle

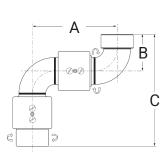
Ci	Don't #	Matarial	Weight		Dimensions			
Size	Part #	Material	(lbs.)	Α	В	С		
		OC - carbon steel	10	7-17/32"	5-1/8"	10 1 / 4"		
2"	2" 24HTFXTF	OS - stainless steel	10	7-17/32	5-1/6	10-1/4"		
		AL - aluminum	6	6-11/16"	5-1/8"	10-1/4"		
		OC - carbon steel	18	10-1/8"	4-3/8"	8-3/4"		
3"	34HTFXTF	OS - stainless steel	18	10-1/8				
		AL - aluminum	9	9-9/64"	4-15/16"	9-7/8"		
4"	4" 44HTFXTF	OC - carbon steel	39	14"	4-1/4"	8-1/2"		
4		AL - aluminum	19	10-5/8"	6-9/16"	13-1/8"		





O-Ring Style 50 - FNPT x FNPT

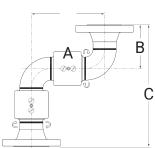




Cima	Dowt #	Matarial	Weight (lbs.)		Dimensions	
Size	Part #	Material	weight (ibs.)	Α	В	С
1"	150575	OC - carbon steel	7	4-59/64"	2-3/16"	6-3/32"
	150FXF	OS - stainless steel	7	5-59/64"	2-11/16"	7-19/32"
		OC - carbon steel	9	7 11 /1 ("	0.15/00"	0.00/00"
1-1/2"	15050FXF	OS - stainless steel	9	7-11/16"	3-15/32"	8-29/32"
		AL - aluminum	3	6-1/8"	3"	7-11/16"
		OC - carbon steel	14	7 17 (00"	0.1/4"	0.00./00!
		OS - stainless steel	14	7-17/32"	3-1/4"	9-29/32"
2"	2" 250FXF	AL - aluminum	8		2-7/8"	
		BR - brass	15	6-11/16"		9-1/16"
		MI - ductile iron	13			
		OC - carbon steel	26			
2-1/2"	25050FXF	OS - stainless steel	26	9 -1/8"	4-11/32"	12-25/32"
		AL - aluminum	10			
		OC - carbon steel	22	10-1/8"	4-13/16"	12-61/64"
3"	350FXF	OS - stainless steel	22	10-1/6	4-13/10	12-01/04
3	330585	AL - aluminum	9	0.1/4"	2.7/0"	10.20/22"
		MI - ductile iron	22	8-1/4"	3-7/8"	10-29/32"
4"	4E0EVE	OC - carbon steel	67	14"	6-3/8"	18-3/4"
4"	450FXF	AL - aluminum	15	10-5/8"	4-3/4"	13-7/8"

O-Ring Style 50 - 150# Flange x 150# Flange





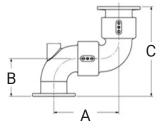
Cina	Dort #	Meterial	Maight (lba)		Dimension	s	
Size	Part #	Material	Weight (lbs.)	Α	В	С	
1"	150FGXFG	OC - carbon steel	11	4-59/64"	3-3/16"	9-19/64"	
ı	TOUFGAFG	OS - stainless steel	11	5-59/64"	3-11/16"	10-19/64"	
		OC - carbon steel	14	7 11 /16"	111/16"	12 0/16"	
1-1/2"	1550FGFG	OS - stainless steel	14	7-11/16"	4-11/16"	12-9/16"	
		AL - aluminum	6	6-1/8"	5-11/32"	12-3/8"	
		OC - carbon steel	23	7 17/20"	7-17/32"	4-1/2"	12-17/32"
2"	2" 250FGXFG	OS - stainless steel	23	7-17/32	4-1/2	12-17/32	
		AL - aluminum	12	6-11/16"	5-9/32"	13-29/32"	
		OC - carbon steel	39				
2-1/2"	2550FGFG	OS - stainless steel	39	9-1/8"	5 -1/4"	14-5/8"	
		AL - aluminum	15				
		OC - carbon steel	38	10 1 /0"	E 2/4"	1 E E /O"	
3"	350FGXFG	OS - stainless steel	38	10-1/8"	5-3/4"	15-5/8"	
		AL - aluminum	17	8-1/4"	6-15/32"	16-3/32"	
4"	450FGXFG	OC - carbon steel	83	10-5/8"	7-19/32"	19-9/16"	
4	450FGXFG	AL - aluminum	26	10-5/8"	7-19/32"	19-9/16"	



O-Ring Style 50 - TTMA Flange x TTMA Flange

Size	Part #	Material	Weight (lbs.)	Dimension A	Dimension B	Dimension C	
	2" 250TFXTF	OC - carbon steel	13	7-17/32"	2-3/16"	0.12/22"	
2"		OS - stainless steel	13	7-17/32	2-3/10	9-13/32"	
		AL - aluminum	9	6-11/16"	7-7/16"	11-9/16"	
		OC - carbon steel	24	10.1/0"	3-1/8"	12"	
3"	350TFXTF	OS - stainless steel	23	10-1/8"	3-1/6	12	
		AL - aluminum	9	8-17/32"	4-15/16"	11-3/4"	
4"	4" 450TFXTF	OC - carbon steel	57	14"	4-1/4"	14-1/2"	
4		AL - aluminum	16	10-5/8"	5-1/2"	14-3/16"	

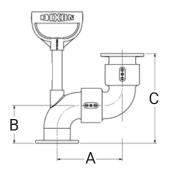




O-Ring Style 50 - TTMA Flange x TTMA Flange with D-handle

Size	Part #	Material	Weight (lbs.)	Dimension A	Dimension B	Dimension C
		OC - carbon steel	17	7 17/20"	2-3/16"	9-13/32"
2"	2" 25HTFXTF	OS - stainless steel	17	7-17/32"		9-13/32
		AL - aluminum	11	6-11/16"	7-7/16"	11-9/16"
		OC - carbon steel	27	10-1/8"	3-1/8"	12"
3"	35HTFXTF	OS - stainless steel	26	10-1/8		12
		AL - aluminum	11	8-17/32"	4-15/16"	11-3/4"
4"	4" 45HTFXTF	OC - carbon steel	60	14"	4-1/4"	14-1/2"
4	430117717	AL - aluminum	19	10-5/8"	5-1/2"	14-3/16"

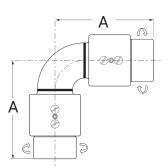




O-Ring Style 60 - FNPT x FNPT

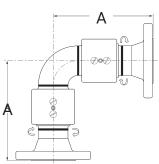


Size	Part #	Material	Weight (lbs.)	Dimension A	
1"	160FXF	OC - carbon steel	6	4-13/32"	
ı	TOUFAF	OS - stainless steel	6	4-29/32"	
		OC - carbon steel	9	F 7/16"	
1-1/2"	15060FXF	OS - stainless steel	9	5-7/16"	
		AL - aluminum	3	4-11/16"	
		OC - carbon steel	13	6 01 /00"	
	260FXF	OS - stainless steel	13	6-21/32"	
2"		AL - aluminum	7		
		BR - brass	14	6-7/32"	
		MI - ductile iron	13		
		OC - carbon steel	25		
2-1/2"	25060FXF	OS - stainless steel	25	8-15/32"	
		AL - aluminum	10		
		OC - carbon steel	23	0.0764	
0.11	260575	OS - stainless steel	23	8-9/64"	
3"	360FXF	AL - aluminum	9	7.1/20"	
		MI - ductile iron	19	7-1/32"	
4"	460575	OC - carbon steel	61	12-3/8"	
4"	460FXF	AL - aluminum	13	9-1/8"	



O-Ring Style 60 - 150# Flange x 150# Flange





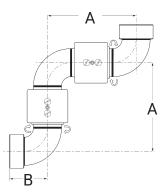
Size	Part #	Material	Weight (lbs.)	Dimension A	
1"	16050750	OC - carbon steel	11	6-7/64"	
I	160FGXFG	OS - stainless steel	11	6-39/64"	
		OC - carbon steel	13	7.7/0"	
1-1/2"	1560FGFG	OS - stainless steel	13	7-7/8"	
		AL - aluminum	6	7-1/32"	
		OC - carbon steel	25	0 1 /22"	
2"	260FGXFG	OS - stainless steel	25	8-1/32"	
		AL - aluminum	11	8-5/8"	
		OC - carbon steel	37		
2-1/2"	2560FGFG	OS - stainless steel	37	9-3/8"	
		AL - aluminum	14		
		OC - carbon steel	35	0.7/0"	
3"	360FGXFG	OS - stainless steel	35	9-7/8"	
		AL - aluminum	16	9-5/8"	
4"	460FGXFG	OC - carbon steel	78	13"	
4	400-07-0	AL - aluminum	23	11-31/32"	



O-Ring Style 70 - FNPT x FNPT

C:	Dowt #	Meterial	Weight (lbs.)	Dime	nsions	
Size	Part #	Material	Weight (ibs.)	Α	В	
1"	170575	OC - carbon steel	8	4-59/64"	2-3/16"	
ı	170FXF	OS - stainless steel	8	5-59/64"	2-11/16	
		OC - carbon steel	10	7 11 /16"	0.15/00	
1-1/2"	15070FXF	OS - stainless steel	10	7-11/16"	3-15/32"	
		AL - aluminum	3	6-1/8"	3"	
		OC - carbon steel	15	7 17/20"	7 17/20"	0.4 (41)
		OS - stainless steel	15	7-17/32"	3-1/4"	
2"	270FXF	AL - aluminum	8	6-11/16"	2-7/8"	
		BR - brass	16			
		MI - ductile iron	14			
		OC - carbon steel	28			
2-1/2"	25070FXF	OS - stainless steel	28	9 -1/8"	4-11/32	
		AL - aluminum	11			
		OC - carbon steel	25	10.1/0"	4.10/16	
3"	370FXF	OS - stainless steel	25	10-1/8"	4-13/16"	
		AL - aluminum	10	8-1/4"	3-7/8"	
4"	470575	OC - carbon steel	72	14"	6-3/8"	
4"	470FXF	AL - aluminum	17	10-5/8"	4-3/4"	

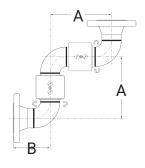




O-Ring Style 70 - 150# Flange x 150# Flange

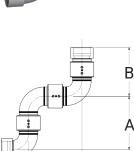
0:	D	M-4:-1	Weight (lbs.)	Dimei	nsions
Size	Part #	Material	weight (ibs.)	Α	В
4.11	17050750	OC - carbon steel	11	4-59/64"	0.0/16"
1"	170FGXFG	OS - stainless steel	11	5-59/64"	3-3/16"
		OC - carbon steel	14	7 11 /1 ("	4 11 /16
1-1/2"	1570FGFG	OS - stainless steel	14	7-11/16"	4-11/16"
		AL - aluminum	6	6-1/8"	5-11/32
		OC - carbon steel	23	7 17/20"	4-1/2"
2"	270FGXFG	OS - stainless steel	23	7-17/32"	
		AL - aluminum	12	6-11/16"	5-9/32'
		OC - carbon steel	41		
2-1/2"	2570FGFG	OS - stainless steel	41	9-1/8"	5-1/4"
		AL - aluminum	15		
		OC - carbon steel	41	10.1/0"	E 2/4"
3"	370FGXFG	OS - stainless steel	41	10-1/8"	5-3/4"
		AL - aluminum	18	8-1/4"	6-15/32
4"	470FCVFC	OC - carbon steel	88	14"	7"
4	470FGXFG	AL - aluminum	27	15-5/16"	/"





O-Ring Style 80 - FNPT x FNPT

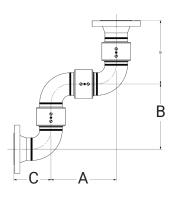




Cina	Dort #	Material	Weight (lbs.)		Dimensions	•	
Size	Part #	Material	Weight (ibs.)	Α	В	С	
1"	100575	OC - carbon steel	9	4.00/20"	E 0 /00"	0.0/16"	
ı	180FXF	OS - stainless steel	9	4-29/32"	5-3/32"	2-3/16"	
		OC - carbon steel	14	6 0/16"	C 1 / A"	0.1/16"	
1-1/2"	15080FXF	OS - stainless steel	14	6-3/16"	6-1/4"	3-1/16"	
		AL - aluminum	6	6-13/16"	6-7/8"	3-1/16"	
		OC - carbon steel	19	7 17/20"	7 7/22"	0 11 /16"	
2"	2" 280FXF	OS - stainless steel	19	7-17/32"	7-7/32"	3-11/16"	
		AL - aluminum	10	9-3/8"	9-1/16"	3-11/16"	
		OC - carbon steel	37				
2-1/2"	25080FXF	OS - stainless steel	37	9-1/8"	8-15/32"	4-11/32	
		AL - aluminum	14				
		OC - carbon steel	36	10 1 /0"	0.1/4"	E 1 /0"	
3"	380FXF	OS - stainless steel	36	10-1/8"	9-1/4"	5-1/8"	
		AL - aluminum	17	11-21/32"	10-25/32"	5-1/8"	
4"	400EVE	OC - carbon steel	88	14"	12-3/8"	6-3/8"	
4	480FXF	AL - aluminum	29	15-5/16"	13-11/16"	6-3/8"	







O-Ring Style 80 - 150# Flange x 150# Flange

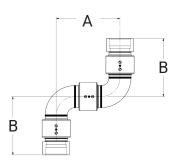
Size	Part #	Motorial	Weight (lbc)	D	imensions	
Size	Part #	Material	Weight (lbs.)	Α	В	С
1"	180FGXFG	OC - carbon steel	12	5"	6"	2 12/6 4"
ı	I TOURGARG	OS - stainless steel	13	5	0	3-13/64"
		OC - carbon steel	19	C 10 C 4"	7 1 /0"	
1-1/2"	1580FGFG	OS - stainless steel	19	6-13-64"	7-1/8"	4"
		AL - aluminum	7	6-13/16"	7-3/4"	
		OC - carbon steel	28	7 1 /0"	8"	4.1./0"
2"	280FGXFG	OS - stainless steel	28	7-1/2"	8	4-1/2"
		AL - aluminum	13	9-3/8"	9-7/8"	4-1/2"
		OC - carbon steel	50			
2-1/2"	2580FGFG	OS - stainless steel	49	9-1/8"	9-3/8"	5-1/4"
		AL - aluminum	18			
		OC - carbon steel	51	10 1 /0"	0.7/0"	F 0 / 4"
3"	380FGXFG	OS - stainless steel	51	10-1/8"	9-7/8"	5-3/4"
		AL - aluminum	22	11-43/64"	11-13/32"	5-3/4"
	40050750	OC - carbon steel	109	14"	13"	7"
4"	480FGXFG	AL - aluminum	37	15-11/32"	14-11/32"	7"



O-Ring Style 10 - FNPT x FNPT

Cina	Dort #	Motorial	Weight (lbs.)	Dimer	nsions
Size	Part #	Material	Weight (ibs.)	A	В
1"	110575	OC - carbon steel	9	5"	5"
ı	110FXF	OS - stainless steel	9	5	5
		OC - carbon steel	13	6 10/64"	6-1/4"
1-1/2"	15010FXF	OS - stainless steel	13	6-13/64"	0-1/4
		AL - aluminum	5	6-13/16"	6-7/8"
		OC - carbon steel	18	7 1 /0"	7 1 5 / 6 / 1"
2"	210FXF	OS - stainless steel	19	7-1/2"	7-15/64'
		AL - aluminum	10	9-3/8"	9"
		OC - carbon steel	35		
2-1/2"	25010FXF	OS - stainless steel	35	9-1/8"	8-15/32"
		AL - aluminum	13		
		OC - carbon steel	33	10.1/0"	0.1/4"
3"	310FXF	OS - stainless steel	33	10-1/8"	9-1/4"
		AL - aluminum	18	11-43/64"	10-25/32
A.II	41.0575	OC - carbon steel	82	14"	12-3/8"
4"	410FXF	AL - aluminum	32	15-11/32"	13-43/64

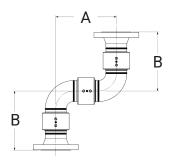




O-Ring Style 10 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)	Dime	nsions
Size	Pail#	Material	Weight (ibs.)	A	В
1"	110FGXFG	OC - carbon steel	13	5"	6"
ı	TTUFGAFG	OS - stainless steel	13	3	O
		OC - carbon steel	18	6 10/6/	7 1 /0"
1-1/2"	1510FGFG	OS - stainless steel	18	6-13/64"	7-1/8"
		AL - aluminum	7	6-13/16"	7-3/4"
		OC - carbon steel	27	7.1./0"	8"
2"	210FGXFG	OS - stainless steel	27	7-1/2"	8
		AL - aluminum	11	9-3/8"	9-7/8"
		OC - carbon steel	48		
2-1/2"	2510FGFG	OS - stainless steel	48	9-1/8"	9-3/8'
		AL - aluminum	18		
		OC - carbon steel	49	10.1/0"	0.7/0"
3"	310FGXFG	OS - stainless steel	48	10-1/8"	9-7/8"
		AL - aluminum	17	11-43/64"	11-13/3
4"	410F0VF0	OC - carbon steel	104	14"	13"
4"	410FGXFG	AL - aluminum	29	15-11/32"	14-11/3





Optional Seals for O-Ring Swivels

O-Ring - Seal Materials

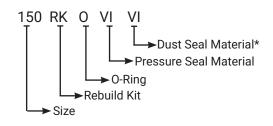
· Materials: Nitrile rubber, FKM, spring-loaded PTFE, food grade nitrile rubber, and EPDM seals

Rebuild Kits for O-Ring Swivels

Each kit contains:

- · 1 O-ring (pressure seal) in the material indicated
- 1 O-ring (dust seal) in the material indicated
- 2 ball retainer screws
- · 1 grease plug
- · 10 ball bearings

NOTE: All rebuild kits are per plane of rotation Different grade of ball bearing materials available upon request



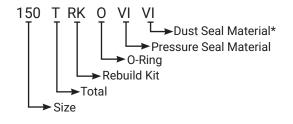
Size	Nitrile rubber	FKM/Nitrile rubber	FKM/FKM	PTFE/FKM
1"	1RKOBU	1RKOVI	1RKOVIVI	1RKOTFVI
1-1/4" and 1-1/2"	150RKOBU	150RKOVI	150RKOVIVI	150RKOTFVI
2"	2RKOBU	2RKOVI	2RKOVIVI	2RKOTFVI
2-1/2" and 3"	3RKOBU	3RKOVI	3RKOVIVI	3RKOTFVI
4"	4RKOBU	4RKOVI	4RKOVIVI	

Total Rebuild Kits for O-Ring Swivels

Each kit contains:

- 1 O-ring (pressure seal) in the material indicated
- 1 O-ring (dust seal) in the material indicated
- 2 ball retainer screws
- 1 grease plug
- · Number of ball bearings varies depending on size

NOTE: All rebuild kits are per plane of rotation Different grade of ball bearing materials available upon request



Size	Nitrile rubber	FKM/Nitrile rubber	FKM/FKM	PTFE/FKM
1"	1TRKOBU	1TRKOVI	1TRKOVIVI	1TRKOTFVI
1-1/4" and 1-1/2"	150TRKOBU	150TRKOVI	150TRKOVIVI	150TRKOTFVI
2"	2TRKOBU	2TRKOVI	2TRKOVIVI	2TRKOTFVI
2-1/2" and 3"	3TRKOBU	3TRKOVI	3TRKOVIVI	3TRKOTFVI
4"	4TRKOBU	4TRKOVI	4TRKOVIVI	

^{*}If the part number does not include characters for the dust seal, the kit will include a nitrile rubber dust seal.



Replacement Ball Bearings for O-Ring Swivels

Size	Quantity Per Plane of Rotation	Carbon Steel (standard) Part #	440 Stainless Steel Part #	316 Stainless Steel Part #	
1"	40	14CSBA	14SSBA	14SSBA-316	
1-1/4" and 1-1/2"	56	14CSBA	14SSBA	14SSBA-316	
2"	46	38CSBA	38SSBA	38SSBA-316	
2-1/2" and 3"	62	38CSBA	38SSBA	38SSBA-316	
4"	80	38CSBA	38SSBA	38SSBA-316	



O-Ring Swivel Seal Replacement Procedure

NOTE: Instructions are not for assembly with spring-loaded PTFE pressure seal, consult Dixon®.

Remove the ball retainer screws. Add a sufficient amount of solvent into each raceway to flush out the lubricant. Rotate the sleeve, catching the balls as they fall out. When all the balls have been removed, the body and sleeve can be separated. Discard old seals. Thoroughly clean the body and sleeve.



Insert the sleeve into the body, slowly rotate the sleeve while inserting into the body.



Install the new O-rings on the sleeve, dust seal to the rear, product (pressure) seal up front.



When the sleeve is fully inserted, feed the ball bearings into the raceways while rotating the sleeve. To make space for all the balls, insert a screw driver into the raceway, while continuing to rotate the sleeve in one direction (be careful not to damage the threads). This will cause the balls to jam up, making room for the remaining balls. Now reverse rotation of sleeve and insert the remaining balls.



Lubricate the body and the sleeve with grease.



Reinstall ball retainer screws until tight. If this interferes with the smooth rotation of the ball bearings, then back off 1/8 to 1/4 turn. A thread locking sealant is recommended to prevent screws from backing off. After pressure testing, the unit is ready for installation.



A

Body and sleeve are matched during manufacturing. Do not mix components with other units.

Visit Dixon's YouTube channel for more information youtube.com/@DixonValve

V-Ring Swivel Joints

Applications

Commonly used in the steel industry, marine bulk transfer, waste water treatment plants, and petrochemical industry.

Sizes

• 2" - 14"

Features

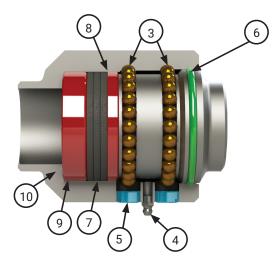
- V-ring, also known as chevron packing, is a multiple lip seal known for its reliability and long life.
- The three V-ring seals are designed to seal even under misalignment caused by race wear from years of service. This design results in longer time between service periods, increased up-time efficiencies, and lower maintenance costs.
- Spring-loaded triple V-ring sealing system ensures a leak-proof seal at high or low pressure and extends seal life
- Swivels are shipped standard with the following:
 - Nitrile rubber pressure seals and dust seals
 - Carbon steel ball bearings
 - PTFE retainers
- Available working pressure ratings up to 1,000 PSI
- End connections and materials offered may vary based on size, contact Dixon® for details



Available materials include carbon steel, 316L stainless steel, and aluminum

Bill of Materials

- 1. Body
- 2. Sleeve
- 3. Ball bearings
- 4. Grease fitting
- 5. Ball retainer screws
- O-ring (dust seal)
- V-ring (pressure seal)
- 8. Seal retainer
- Spring retainer
- 10. Springs





V-Ring Swivel Joint Numbering System

2	20	F	X	F	CS	0	0	2	0	0
Sizes Inches	Style	End Connection	x	End Connection	Material	Pressure Seal	Dust Seal	Retainers	Ball Bearings	Grease
2 = 2"	20	F (FNPT)	х	F (FNPT)	AL = Aluminum	0 = nitrile rubber	0 = nitrile rubber	2 = PTFE retainers	0 = CS carbon steel	0 = lithium
3 = 3"	30	W (weld)	х	W (weld)	CS = V-ring carbon steel	1 = FKM	1 = FKM		1 = 440 stainless steel	1 = food grade
4 = 4"	40	FG (150#)	x	FG (150#)	SS = V-ring 316L stainless steel	2 = PTFE			2 = 316 stainless steel	2 = silicone
6 = 6"	50	PF (300#)	х	PF (300#)		3 = EPDM	3 = EPDM			3 = Tribolube
8 = 8"	60	TF (TTMA)	х	TF (TTMA)		4 = FDA nitrile rubber	4 = FDA nitrile rubber			4 = low temperature
10 = 10"	70	BP (BSPP)	Х	BP (BSPP)		5 = No seal	5 = No seal			5 = no grease
12 = 12"	80	BT (BSPT)	Х	BT (BSPT)						
14 = 14"	10	G (groove)	х	G (groove)						
		M (MNPT)	Х	M (MNPT)						

NOTE: Other end connections or seals are available upon request.

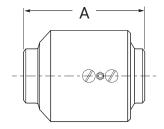
- · Standard grease fitting without ball check. Ask for ball check if required.
- Aluminum V-ring version only available in 6" and 8"



V-Ring Style 20 - Weld x Weld

Size	Part #	Material	Weight (lbs.)	Dimension A
2"	220WXW	CS - carbon steel	9	E E/16"
2	22000	SS - stainless steel	9	5-5/16"
3"	320WXW	CS - carbon steel	13	5-3/4"
3	32000	SS - stainless steel	13	5-3/4
4"	420WXW	CS - carbon steel	24	7"
4	42000	SS - stainless steel	25	/
		CS - carbon steel	55	
6"	620WXW	SS - stainless steel	57	8-3/8"
		AL - aluminum	22	
		CS - carbon steel	78	
8"	820WXW	SS - stainless steel	92	8-5/8"
		AL - aluminum	35	
10"	10001417(14)	CS - carbon steel	190	11 5/0"
10"	1020WXW	SS - stainless steel	193	11-5/8"
10"	122014/214/	CS - carbon steel	208	11 11 /20"
IZ	12" 1220WXW	SS - stainless steel	211	11-11/32"
14"	1420WXW	CS - carbon steel	246	11-23/32"

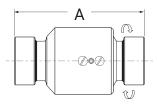




V-Ring Style 20 - FNPT x FNPT

Size	Part #	Material	Weight (lbs.)	Dimension A			
2"	220575	CS - carbon steel	13	0.11/16"			
Z	220FXF	SS - stainless steel	12	8-11/16"			
3"	0" 200575	CS - carbon steel	17	10"			
3	320FXF	SS - stainless steel	18	10			
4"	4005)/5	CS - carbon steel	37	11 0 / 4"			
4	420FXF	SS - stainless steel	38	11-3/4"			
			CS-c		CS - carbon steel	68	
6"	620FXF	SS - stainless steel	70	12-1/8"			
		AL - aluminum	26				

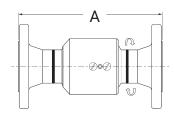




V-Ring Style 20 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)	Dimension A	
2"	220FGXFG	CS - carbon steel	22	10-5/16"	
2	2 220FGXFG	SS - stainless steel	21	10-5/16	
3"	320FGXFG	CS - carbon steel	36	11 1 / / !"	
3	320FGXFG	SS - stainless steel	35	11-1/4"	
4"	420FGXFG	CS - carbon steel	57	13"	
4	420FGXFG	SS - stainless steel	58	13	
		CS - carbon steel	104		
6"	620FGXFG	SS - stainless steel	106	15-3/8"	
		AL - aluminum	39		
		CS - carbon steel	162		
8"	820FGXFG	SS - stainless steel	170	16-5/8"	
		AL - aluminum	61		
10"	1020FGFG	CS - carbon steel	296	19-5/8"	
10	1020FGFG	SS - stainless steel	300	19-5/8	
12"	1220FGFG	CS - carbon steel	369	20-11/32"	
12	1220FGFG	SS - stainless steel	374	20-11/32	
14"	1420FGFG	CS - carbon steel	467	21-23/32	

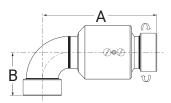








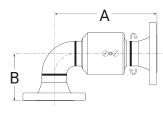
Size	Part #	Material	Weight (lbs.)	Dimensions		
Size	Part #	Waterial	Weight (150.)	Α	В	
2"	220575	CS - carbon steel	12	9"	0 11/16	
Z	230FXF	SS - stainless steel	12	9	3-11/16"	
3"	330FXF	CS - carbon steel	21	10.7/0"	5-1/8"	
3	330FXF	SS - stainless steel	21	10-7/8"		
4"	430FXF	CS - carbon steel	42	12.2/0"	6-3/8"	
4	430FXF	SS - stainless steel	44	13-3/8"	0-3/8	
		CS - carbon steel	84			
6"	630FXF	SS - stainless steel	84	16-1/4"	7-7/8"	
		AL - aluminum	32			



V-Ring Style 30 - 150# Flange x 150# Flange





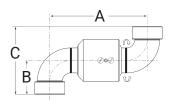




V-Ring Style 40 - FNPT x FNPT

Size	Part #	Material	Weight		Dimensions		
Size	I dit#	(lbs.)		Α	В	C	
2"	240FXF	CS - carbon steel	13	0 E/16"	3-11/16"	7-3/8"	
۷	240575	SS - stainless steel	13	9-5/10	3-11/10	7-3/0	
3"	0" 040575	CS - carbon steel	24	11 0 / 4"	5-1/8"	10-1/4"	
3	340FXF	SS - stainless steel	24	11-3/4"			
4"	440FXF	CS - carbon steel	47	15"	C 0 (0"	10 0 / 4"	
4	440FXF	SS - stainless steel	51	15	6-3/8"	12-3/4"	
		CS - carbon steel	101		" 7-7/8"		
6"	640FXF	SS - stainless steel	99	20-3/8" 7-7/8"		15-3/4"	
		AL - aluminum	39				

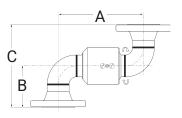




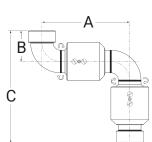
V-Ring Style 40 - 150# Flange x 150# Flange

Cina	Dowt #	Material	Weight		Dimens	imensions	
Size	Part #	Part # Material (Α	В	С	
2"	240FGXFG	CS - carbon steel	24	9-5/16"	4-1/2"	9"	
	Z4UFGAFG	SS - stainless steel	23	9-5/10	4-1/2	9	
3"	340FGXFG	CS - carbon steel	49	11-3/4"	5-3/4"	11-1/2"	
	34070770	SS - stainless steel	41	11-3/4	3-3/4	11-1/2	
4"	440FGXFG	CS - carbon steel	70	15"	7"	14"	
4	44070770	SS - stainless steel	72	13	_ ′	14	
		CS - carbon steel	138		9-1/2"		
6"	640FGXFG	SS - stainless steel	136	20-3/8"		19"	
		AL - aluminum	52				
		CS - carbon steel	230		12"		
8"	840FGXFG	SS - stainless steel	246	24-5/8"		24"	
		AL - aluminum	92				
10"	1040FGFG	CS - carbon steel	395	31-1/16"	14"	28"	
10	1040FGFG	SS - stainless steel	400	31-1/10	14	20	
12"	10405050	CS - carbon steel	533	35-11/32"	16-1/2"	33"	
IΖ	1240FGFG	SS - stainless steel	540	33-11/32	10-1/2	33	
14"	1440FGFG	CS - carbon steel	695	39-23/32"	19"	38"	







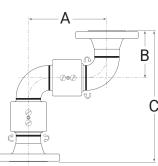


V-Ring Style 50 - FNPT x FNPT

C:	Dowt #	Material	Weight (lbs.)	Di	Dimensions		
Size	Part #	Material Weight (lbs.)		Α	В	С	
2"	250FXF	CS - carbon steel	23	9-5/16"	2 11 /16"	10 11/16"	
Z	Z30FXF	SS - stainless steel	23	9-5/10	3-11/10	12-11/16"	
3"	350FXF	CS - carbon steel	37	11-3/4"	E 1/0"	16"	
3	330FXF	SS - stainless steel	37	11-3/4	5-1/8"		
4"	4505V5	CS - carbon steel	73	15"	6.270"	19-3/4"	
4	450FXF	SS - stainless steel	76	15"	6-3/8"		
		CS - carbon steel	156				
6"	650FXF	SS - stainless steel	155	20-3/8"	7-7/8"	24-1/8"	
		AL - aluminum	61				

V-Ring Style 50 - 150# Flange x 150# Flange





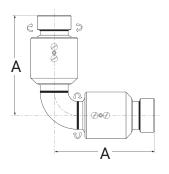
Circ Dort #		Managara	Weight		Dimensio	ns	
Size	Part #	Material	(lbs.)	Α	В	C	
2"	250FGXFG	CS - carbon steel	33	0 E/16"	4 1 /0"	115/16"	
2	ZOUFGAFG	SS - stainless steel	32	9-5/16"	4-1/2"	14-5/16"	
3"	350FGXFG	CS - carbon steel	56	11-3/4"	E 2 / 4"	17 1 / / "	
3	350FGXFG	SS - stainless steel	54	11-3/4	5-3/4"	17-1/4"	
4"	450FGXFG	CS - carbon steel	94	15"	7"	21"	
4	450FGXFG	SS - stainless steel	97	15		۷1	
		CS - carbon steel	192				
6"	650FGXFG	SS - stainless steel	192	20-3/8"	9-1/2"	27-3/8"	
		AL - aluminum	74				
		CS - carbon steel	309			32-5/8"	
8"	850FGXFG	SS - stainless steel	338	24-5/8"	12"		
		AL - aluminum	128				
10"	10505050	CS - carbon steel	585	21 27/20"	1 // "	20 5/0"	
10"	1050FGFG	SS - stainless steel	592	31-27/32"	14"	39-5/8"	
10"	10505050	CS - carbon steel	741	25 11 /20"	16 1 /0"	4411/00	
12"	1250FGFG	SS - stainless steel	751	35-11/32"	16-1/2"	44-11/32"	
14"	1450FGFG	CS - carbon steel	941	39-23/32"	19"	49 23/32	



V-Ring Style 60 - FNPT x FNPT

Size	Part #	Material	Weight (lbs.)	Dimension A	
2"	260FXF	CS - carbon steel	22	9"	
2	200FXF	SS - stainless steel	22	9	
3" 360FXF	0.0572	CS - carbon steel	34	10-7/8"	
3	360FXF	SS - stainless steel	34		
4"	460FXF	CS - carbon steel	72	10.0/0"	
4	400FXF	SS - stainless steel	72	13-3/8"	
	CS - carbon steel	118			
6"	660FXF	SS - stainless steel	140	16-1/4"	
		AL - aluminum	56		

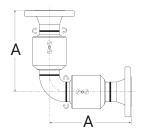




V-Ring Style 60 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)	Dimension A
2"	" 260FGXFG	CS - carbon steel	42	9-13/16"
2	ZOUFGAFG	SS - stainless steel	42	9-13/10
3"	360FGXFG	CS - carbon steel	83	11-1/2"
3	SOUFGAFG	SS - stainless steel	83	11-1/2
4"	460E0VE0	CS - carbon steel	106	1 4"
4"	460FGXFG	SS - stainless steel	106	14"
		CS - carbon steel	172	
6"	660FGXFG	SS - stainless steel	172	17-7/8"
	AL - aluminum	69		
	CS-	CS - carbon steel	312	
8"	860FGXFG	SS - stainless steel	312	20-5/8"
		AL - aluminum	117	
10"	10605050	CS - carbon steel	535	05.07/00"
10"	1060FGFG	SS - stainless steel	542	25-27/32"
12"	1260FGFG	CS - carbon steel	660	27-27/32"
14	1200FGFG	SS - stainless steel	668	21-21/32
14"	1460FGFG	CS - carbon steel	827	30-23/32"

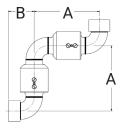




V-Ring Style 70 - FNPT x FNPT

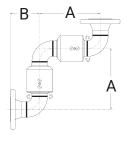






V-Ring Style 70 - 150# Flange x 150# Flange





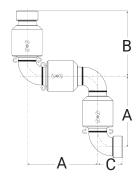
Size Part #		Material	Weight (lbs.)	Dimen	sions
		iviateriai	Weight (ibs.)	Α	В
2"	270FGXFG	CS - carbon steel	34	0.5/16"	4 1 /0"
2 21	2/UFGXFG	SS - stainless steel	33	9-5/16"	4-1/2"
3"	370FGXFG	CS - carbon steel	59	11 0 / 4"	E 0 / 4"
3	3/0FGXFG	SS - stainless steel	57	11-3/4"	5-3/4"
4"	470FGXFG	CS - carbon steel	100	15"	7"
4	4/UFGXFG	SS - stainless steel	103	15	/
		CS - carbon steel	209		9-1/2"
6"	670FGXFG	FG SS - stainless steel	207	20-3/8"	
		AL - aluminum	82		
		CS - carbon steel	343		12"
8"	870FGXFG	SS - stainless steel	376	24-5/8"	
		AL - aluminum	143		
10"	1070FGFG	CS - carbon steel	637	21 27/22"	1 // "
10	10/0FGFG	SS - stainless steel	645	31-27/32"	14"
12"	1270FGFG	CS - carbon steel	823	2F 11/20"	16 1 /0'
۱Z	12/0FGFG	SS - stainless steel	834	35-11/32"	16-1/2"
14"	1470FGFG	CS - carbon steel	1055	39-23/32"	19"



V-Ring Style 80 - FNPT x FNPT

Size	Dort #	Material	Weight	Dimensions		
Size	Part #	Material	(lbs.)	Α	В	C
2"	200575	CS - carbon steel	33	0 5/16"	0.0/16"	0 11/16"
Z	280FXF	SS - stainless steel	34	9-5/16"	9-9/16"	3-11/16"
3"	380FXF	CS - carbon steel	53	11-3/4"	10-7/8"	5-1/8"
3	SOUFAF	SS - stainless steel	53	11-3/4		
4"	400EVE	CS - carbon steel	104	15"	13-3/8"	6-3/8"
4"	480FXF	SS - stainless steel	108	15"		
		CS - carbon steel	227			
6"	680FXF	SS - stainless steel	227	20-3/8"	16-1/4"	7-7/8"
		AL - aluminum	89			

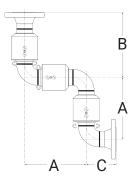




V-Ring Style 80 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)	Dimensions			
Size	Part #	Material	Weight (ibs.)	Α	В	С	
2"	280FGXFG	CS - carbon steel	43	9-5/16"	0.5/16" 0.10/16"	4-1/2"	
Z	ZOUFGAFG	SS - stainless steel	42	9-5/10	9-13/16"	4-1/2	
3"	380FGXFG	CS - carbon steel	72	11-3/4"	11-1/2"	5-3/4"	
3	SOUFGAFG	SS - stainless steel	70	11-5/4	11-1/2	3-3/4	
4"	480FGXFG	CS - carbon steel	125	15"	14"	7"	
4	400FGAFG	SS - stainless steel	128	13	14	_ ′	
	6" 680FGXFG	CS - carbon steel	264		17-7/8"		
6"		SS - stainless steel	263	20-3/8"		9-1/2"	
		AL - aluminum	102				
		CS - carbon steel	421		20-5/8"	12"	
8"	880FGXFG	SS - stainless steel	468	24-5/8"			
		AL - aluminum	178				
4.0"	10005050	CS - carbon steel	827	04.40./00!	05.40.000	4.411	
10"	1080FGFG	SS - stainless steel	838	31-19/32"	25-19/32"	14"	
12"	1280FGFG CS - carbon steel 1032		1032	35-11/32"	27-27/32"	16 1/0"	
12	1200FGFG	SS - stainless steel	1045	33-11/32	21-21/32	16-1/2"	
14"	1480FGFG	CS - carbon steel	1300	39-23/32"	30-23/32"	19"	

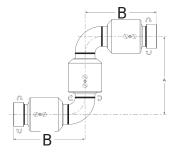






V-Ring Style 10 - FNPT x FNPT

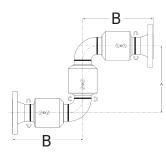
Cina	Dowt #	Meterial	Weight (lbs.)	Dimensions	
Size	Part #	Material	weight (ibs.)	Α	В
2"	210FXF	CS - carbon steel	32	9-5/16"	9"
۷	ZIUFAF	SS - stainless steel	33	9-5/10	9
3"	310FXF	CS - carbon steel	50	11 0 / 4"	10-7/8"
3	310FXF	SS - stainless steel	50	11-3/4"	
4"	410FXF	CS - carbon steel	97	15"	10.0/0"
4	410FXF	SS - stainless steel	101	15	13-3/8"
		CS - carbon steel	210		
6"	610FXF	SS - stainless steel	200	20-3/8"	16-1/4"
		AL - aluminum	69		



V-Ring Style 10 - 150# Flange x 150# Flange



Size	Size Part # Material		Weight (lbs.)	Dime	ensions
OIZC	i di t "	Waterial	li oigii (iioi)	Α	В
2"	210FGXFG	CS - carbon steel	42	9-5/16"	9-13/16"
2	SS - stainless steel 41		9-5/10	9-13/10	
3"	310FGXFG	CS - carbon steel	69	11-3/4"	11-1/2"
<u> </u>	STUFGAFG	SS - stainless steel	67	11-5/4	11-1/2
4"	410FGXFG	CS - carbon steel	119	15"	14"
4	410FGAFG	SS - stainless steel	122	15	14
		CS - carbon steel	222		
6"	610FGXFG	SS - stainless steel	234	20-3/8"	17-7/8"
		AL - aluminum	97		
		CS - carbon steel	387		
8"	810FGXFG	SS - stainless steel	430	24-5/8"	20-5/8"
		AL - aluminum	163		
10"	1010FGFG	CS - carbon steel	775	31-1/16"	25-27/32"
10	1010FGFG	SS - stainless steel	785	31-1/10	25-27/32
12"	1210FGFG	CS - carbon steel	950	35-11/32"	27-27/32"
12	12105656	SS - stainless steel	962	30-11/32	21-21/32
14"	1410FGFG	CS - carbon steel	1187	39-23/32"	30-23/32"





Repair Parts For V-Ring Swivels

V-Ring - Seal Material

· Materials: Nitrile rubber, FKM, PTFE, food grade nitrile rubber, and EPDM seals

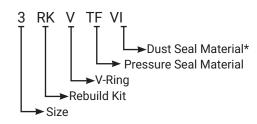
Rebuild Kits for V-Ring Swivels

Each kit contains:

- · 3 V-ring (pressure seal) in the material indicated
- 1 dust seal in the material indicated
- · 2 ball retainer screws
- 1 grease plug
- · 10 ball bearings

NOTE: All rebuild kits are per plane of rotation

Different grade of ball bearing materials available upon request



Size	Nitrile rubber	FKM/Nitrile rubber	FKM/FKM	PTFE/FKM
2"	2RKVBU	2RKVVI	2RKVVIVI	2RKVTFVI
3"	3RKVBU	3RKVVI	3RKVVIVI	3RKVTFVI
4"	4RKVBU	4RKVVI	4RKVVIVI	4RKVTFVI
6"	6RKVBU	6RKVVI	6RKVVIVI	6RKVTFVI
8"	8RKVBU	8RKVVI	8RKVVIVI	8RKVTFVI
10"	10RKVBU	10RKVVI	10RKVVIVI	10RKVTFVI
12"	12RKVBU	12RKVVI	12RKVVIVI	12RKVTFVI
14"	14RKVBU	14RKVVI	14RKVVIVI	Contact Factory

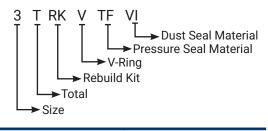
Total Rebuild Kits for V-Ring Swivels

Each kit contains:

- 3 V-ring (pressure seal) in the material indicated
- · 1 dust seal in the material indicated
- · 2 ball retainer screws
- · Number of grease plugs varies depending on size
- 2 PTFE retainers
- · Number of ball bearings varies depending on size

NOTE: All rebuild kits are per plane of rotation

Different grade of ball bearing materials available upon request



Size	Nitrile rubber	FKM/Nitrile rubber	FKM/FKM	PTFE/FKM
2"	2TRKBU	2TRKVI	2TRKVIVI	2TRKTFVI
3"	3TRKBU	3TRKVI	3TRKVIVI	3TRKTFVI
4"	4TRKBU	4TRKVI	4TRKVIVI	4TRKTFVI
6"	6TRKBU	6TRKVI	6TRKVIVI	6TRKTFVI
8"	8TRKBU	8TRKVI	8TRKVIVI	8TRKVTFVI

^{*}If the part number does not include characters for the dust seal, the kit will include a nitrile rubber dust seal.



Replacement Ball Bearings for V-Ring Swivels

· Materials: carbon steel, 440 stainless steel, or 316 stainless steel

Size	Quantity Per Plane of Rotation	Carbon Steel (standard) Part #	440 Stainless Steel Part #	316 Stainless Steel Part #
2"	48	38CSBA	38SSBA	38SSBA-316
3"	66	38CSBA	38SSBA	38SSBA-316
4"	86	38CSBA	38SSBA	38SSBA-316
6"	98	12CSBA	12SSBA	12SSBA-316
8"	80	34CSBA	34SSBA	34SSBA-316
10"	82	1CSBA	1SSBA	1SSBA-316
12"	86	1CSBA	1SSBA	1SSBA-316
14"	96	1CSBA	1SSBA	1SSBA-316

V-Ring Swivel Seal Replacement Procedure

Remove the ball retainer screws. Add a sufficient amount of solvent into each raceway to flush out the lubricant. Rotate the sleeve, catching the balls as they fall out. When all the balls have been removed, the body and sleeve can be separated. Discard old seals. Thoroughly clean the body, sleeve retainer, spring retainer, and springs.



Lubricate the body unit with a Moly lubricant or equivalent.



Place the assembled spring retainer unit (spring end first) into the body*. Place the set of V-rings onto the spring retainer. Be sure V-rings are installed with the sealing lips facing toward the retainer. Lubricate the body and seals with a moly lubricant or equivalent.



Set the dust seal into O-ring groove on the sleeve. Place the seal retainer on the sleeve with the grooved end facing the V-rings. Lubricate the sleeve with grease.



Insert sleeve into body, compressing swivel joint together until ball races or body and sleeve are in alignment (do not rotate either unit while compressing). Care should be taken to avoid pinching or scoring of V-rings. Drop balls into raceway holes, rotating the sleeve slowly as you load. To make space for all the balls, insert a screw driver into the raceway while continuing to rotate the sleeve in one direction (be careful not to damage the threads). This will cause the balls to jam up, making room for the remaining balls. Now reverse the rotation of the sleeve and insert the remaining balls.



Reinstall ball retainer screws until tight. If this interferes with the smooth rotation of the ball bearings, then back off 1/8 to 1/4 turn. A thread locking sealant is recommended to prevent screws from backing off. After pressure testing, the unit is ready for installation.



* The last coil of the springs has been upset (O.D. slightly larger). When upset end is inserted into the holes provided in the spring retainer, the springs remain secure.



Body and sleeve are matched during manufacturing. Do not mix components with other units.



Cap Seal Swivel Joints

Applications

 Liquid media transfer lines in steel-making plants, floating roof drains, and floating suction systems



Sizes

• 14" - 24"

Features

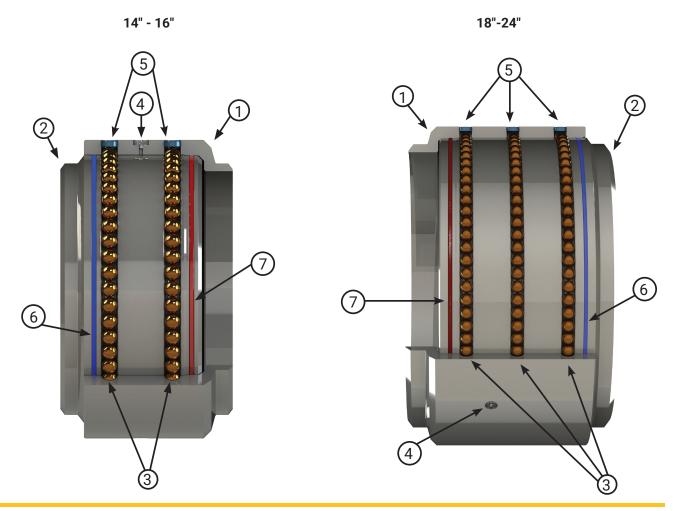
- Pressure seal consists of a nitrile or FKM energizer with glass Moly filled PTFE outer cap seal allowing for a lower torque requirement to rotate
- · Nitrile or FKM X-ring dust seal for additional reduction in required torque to rotate
- · Triple ball-race design for 18" and larger
- · Hardened ball races for increased load capacities of carbon steel swivels
- Available end connections include 150# and 300# flanges and weld ends. Contact Dixon® for more details

Materials

· Carbon steel and 316L stainless steel

Bill of Materials

- 1. Body
- 2. Sleeve
- 3. Ball bearings (14" 16" = 2 ball races, 18" 24" = 3 ball races)
- 4. Grease fitting
- 5. Ball retainer screws
- 6. Dust seal (X-ring)
- 7. Pressure seal (cap seal)



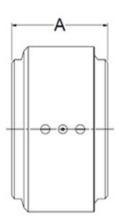
Cap Seal Swivel Joint Numbering System

16	20	FG	FG	UC	0	0	0	0	0
Sizes Inches	Style	End Connection	End Connection	Material	Pressure Seal	Dust Seal	Retainers	Ball Bearings	Grease
14 = 14"	20	W (weld)	W (weld)	UC = Cap Seal Carbon Steel	0 = nitrile rubber	0 = nitrile rubber	0 = No retainer	0 = CS carbon steel	0 = lithium
16 = 16"	30	FG (150#)	FG (150#)	US = Cap Seal 316L Stainless Steel	1 = FKM	1 = FKM		1 = 440 stainless steel	1 = food grade
18 = 18"	40	PF (300#)	PF (300#)		5 = No seal	5 = No seal		2 = 316 stainless steel	2 = silicone
20 = 20"	50								3 = Tribolube
24 = 24"	60								4 = low temperature
	70								5 = no grease

Cap Seal Style 20 - Weld x Weld



Size	Part #	Material	Weight (lbs.)	Dimension A	
14"	1420WXW	UC - carbon steel	255	11 00/00"	
14		US - stainless steel	250	11-23/32"	
16"	1620WXW	UC - carbon steel	255	10-31/32"	
		US - stainless steel	250		
18"	1820WXW	UC - carbon steel	330	12-3/32"	
10		US - stainless steel	325		
20"	2020WXW	UC - carbon steel	440	14"	
24"	2420WXW	UC - carbon steel	660	16-7/8"	



NOTE: Other end connections or seals are available upon request.

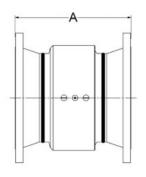
• Includes standard issue grease fittings without ball check. Ask for ball check if required.



Cap Seal Style 20 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)	Dimension A	
14"	1420FGFG	UC - carbon steel	485	21-25/32"	
14		US - stainless steel	475	21-25/32	
16"	1620FGFG	UC - carbon steel	545	21"	
16		US - stainless steel	535		
18"	1820FGFG	UC - carbon steel	670	22.2/22"	
18		US - stainless steel	660	23-3/32"	
20"	2020FGFG	UC - carbon steel	860	25-3/8"	
24"	2420FGFG	UC - carbon steel	1255	28-7/8"	

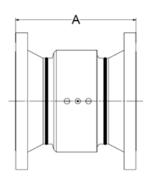




Cap Seal Style 20 - 300# Flange x 300# Flange

Size	Part #	Material	Weight (lbs.)	Dimension A	
14"	1420PFPF	UC - carbon steel	655	22 21 /22"	
14	1420PFPF	US - stainless steel	645	22-31/32"	
16"	1620PFPF	UC - carbon steel	755	22-15/32"	
10		US - stainless steel	745		
18"	1820PFPF	UC - carbon steel	960	24.10/22"	
10		US - stainless steel	950	24-19/32"	
20"	2020PFPF	UC - carbon steel	1205	26-3/4"	
24"	2420PFPF	UC - carbon steel	1790	30-1/8"	

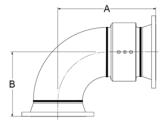








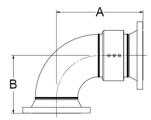
Size	Part #	Material	Weight (lbs)	Dimensions	
	Part #		Weight (lbs.)	Α	В
1 //"	1430FGXFG	UC - carbon steel	605	20.22/22"	19"
14"	1430FGAFG	US - stainless steel	595	30-23/32"	
16"	1630FGXFG	UC - carbon steel	720	31-31/32"	21"
	IOSUFGAFG	US - stainless steel	710		
10"	18" 1830FGXFG	UC - carbon steel	925	25 10 /22"	23-1/2"
18		US - stainless steel	910	35-19/32"	23-1/2
20"	2030FGXFG	UC - carbon steel	1195	39-11/16"	25-11/16'
24"	2430FGXFG	UC - carbon steel	1815	46-7/8"	30"



Cap Seal Style 30 - 300# Flange x 300# Flange



Size	Part #	Material	Weight (lbs.)	Dimensions	
Size			Weight (ibs.)	A	В
14"	1430PFXPF	UC - carbon steel	780	31-11/32"	19-5/8"
	143025775	US - stainless steel	765	31-11/32	
16"	1630PFXPF	UC - carbon steel	940	32-23/32"	21-3/4"
10		US - stainless steel	925		
18"	3" 1830PFXPF	UC - carbon steel	1220	36-11/32"	24-1/4"
10	103UPFXPF	US - stainless steel	1205		
20"	2030PFXPF	UC - carbon steel	1545	40-3/8"	26-3/8"
24"	2430PFXPF	UC - carbon steel	2355	30-5/8"	

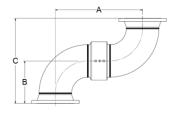




Cap Seal Style 40 - 150# Flange x 150# Flange

Size	Part #	Matarial	Weight		Dimensions			
Size	rail#	Material	(lbs.)	Α	В	С		
14"	1440FGXFG	UC - carbon steel	725	39-23/32"	19"	38"		
14	14 1440FGAFG	US - stainless steel	715	39-23/32	19			
16"	16" 1640FGXFG	UC - carbon steel	905	42-31/32"	21"	42"		
10	1040FGXFG	US - stainless steel	890	42-31/32				
18"	1840FGXFG	UC - carbon steel	1180	48-3/32"	23-1/2"	4711		
10	1840FGXFG	US - stainless steel	1165	46-3/32	23-1/2	47"		
20"	2040FGXFG	UC - carbon steel	1530	54"	25-11/16"	51-3/8"		
24"	2440FGXFG	UC - carbon steel	2370	64-7/8"	30"	60"		

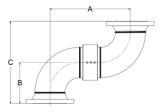




Cap Seal Style 40 - 300# Flange x 300# Flange

Size	Part #	Material	Weight		Dimensions		
Size	I dit#	Material	(lbs.)	Α	В	С	
1 //"	14" 1440PFXPF	UC - carbon steel	900	39-23/32"	19-5/8"	39-1/4"	
14		US - stainless steel	885	39-23/32	19-5/6	39-1/4	
16"	16" 1640PFXPF	UC - carbon steel	1120	40.01.(00"	21-3/4"	43-1/2"	
10	104011711	US - stainless steel	1105	42-31/32"			
18"	1840PFXPF	UC - carbon steel	1475	40.2/22"	01 1/4"	40.1.(0)	
10	104011 XF1	US - stainless steel	1455	48-3/32"	21-1/4"	48-1/2"	
20"	2040PFXPF	UC - carbon steel	1880	54"	26-3/8"	52-3/4"	
24"	2440PFXPF	UC - carbon steel	2910	64-7/8"	30-5/8"	61-1/4"	





Cap Seal Swivel Joint Seal Replacement Procedure

Remove the raceway set screws. Rotate the sleeve inside the body, while removing the ball bearings using a magnetic pick-up tool. When all the balls have been removed, the body and sleeve can be separated.

4 Dry wipe the X-ring (quad) dust seal using a shop towel to remove any debris (refer to seal guide). Put the dust seal into the dust seal groove of the swivel sleeve. Inspect the dust seal to make sure there are no twists.



2 Remove the seals using hand tools that will not damage or scratch the seal grooves. Discard old seals. Thoroughly clean the body, sleeve, and ball bearings using solvent/degreaser.



5 Apply grease to the dust seal and the outside of the swivel sleeve on all surfaces extending from the dust seal groove to the pressure seal groove.



3 Apply grease to the dust seal groove, which is the one closest to the weld, using a small chip/paint brush.



6 Install the O-ring energizer into the pressure seal groove (Refer to Seal Guide). Inspect the O-ring energizer to make sure it is not twisted and apply grease to the O-ring energizer.







Cap Seal Swivel Joint Seal Replacement Procedure

Install the cap pressure seal over top of the pressure seal energizer (Refer to seal guide). The small groove faces outward. Metal or sharp tools must not be used to install the cap seal. Apply grease to the cap pressure seal.



8 Apply grease to the inside of the swivel body on all surfaces extending from the dust seal sealing face to the pressure seal sealing face.



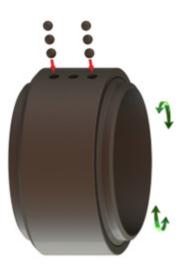
9 Move the swivel sleeve (or move the swivel body) so that the sleeve and body are concentrically aligned.



10 Insert the swivel sleeve into the body until the raceways are aligned.



11 Insert the ball bearings into the raceways while rotating one of the components (body or sleeve).



12 Install the set screws and grease plugs. Add grease into the grease plug, as necessary (application dependent).





Seal pack:

pressure

seal O-rings

(2) and PTFE

retainer

Grease

inspection

port

O-ring dust seals (2)

(Inner dust seal not shown)

Split Flange Swivel Joints

Applications

 For use in industries from petroleum, blending plants, petrochemical, refining, mining, distilling, paint plants, farm irrigation and fertilizing, wastewater treatment, food and beverage process equipment, marine, and many more

Sizes

2", 3", and 4"

Features

- Bearing pack design allows easy seal change without removing the ball bearings
- Simple maintenance: remove one nose piece, replace seal pack, and reinstall with little downtime
- In-stream seal separates the wetted area from the ball bearings, allowing for longer bearing pack life compared to conventional swivels
- · Single wide-set bearing race for higher moment loads
- · Compact design for low-profile applications
- · Full penetration weld

Materials

Nose piece (2)

Grease fitting /

bearing port

FFF

Ball bearings

and spacers

- · Bearing pack: through hardened forged high-carbon alloy
- 4" are available with a optional aluminum bearing back in materials
- Material contact surfaces: stainless steel, carbon steel, or aluminum nose pieces
- Seals: Baylast™, FKM, PTFE, and more upon request

Specifications

- Pressure rating: up to 600 PSI
- Standard temperature range with Baylast[™] seals is -30°F to 212°F (-34°C to 100°C); contact factory for other temperature requirements

Available options

 Swivel end configurations: 150 lbs. and 300 lbs. flanges, FNPT, MNPT, butt weld, TTMA, and others upon request

Split Flange Swivel Joint Numbering System

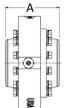
SF	2	20	F	X	F	CS	1	1
Split Flange	Sizes Inches	Style	End Connection	x	End Connection	Nose Piece	Seal Material	Grease
SF	2 = 2"	20	F (FNPT)	х	F (FNPT)	CS carbon steel	0 = Baylast	0 = Standard
	3 = 3"	30	W (weld)	Х	W (weld)	SS 316L stainless steel	1 = FKM	1 = Food grade
	4 = 4"	40	FG (150#)	х	FG (150#)	AL - Aluminum	2 = PTFE	2 = Silicone
		50	PF (300#)	Х	PF (300#)	AA - All Aluminum* Nose Piece + Bearing Pack	3 = EPDM	3 = Tribolube
		60	TF (TTMA)	х	TF (TTMA)		4 = FDA nitrile rubber	4 = Low temperature
		70	BP (BSPP)	Х	BP (BSPP)		A = low temp FKM	
		80	BT (BSPT)	х	BT (BSPT)			
		10	M (MNPT)		M (MNPT)			



Split Flange Style 20 - Weld x Weld

Size	Part #	Material	Weight (lbs.)	Dimension A
		CS - carbon steel	13	
2"	SF220WXW	SS - stainless steel	12	3-7/8"
		AL - aluminum	10	
		CS - carbon steel	16	
3"	SF320WXW	SS - stainless steel	16	4-1/32"
		AL - aluminum	13	
		CS - carbon steel	21	
4"	SF420WXW	SS - stainless steel	20	3-25/32"
		AL - aluminum	16	

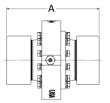




Split Flange Style - 20 FNPT x FNPT

Size	Part #	Material	Weight (lbs.)	Dimension A	
		CS - carbon steel	16		
2"	SF220FXF	SS - stainless steel	16	7-1/4"	
		AL - aluminum	11		
		CS - carbon steel	24		
3"	SF320FXF	SS - stainless steel	23	8-1/8"	
		AL - aluminum	15		
		CS - carbon steel	34		
4"	SF420FXF	SS - stainless steel	34	8-1/2"	
		AL - aluminum	17		

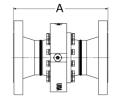




Split Flange Style 20 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)	Dimension A
		CS - carbon steel	24	
2"	SF220FGXFG	SS - stainless steel	24	8-25/32"
		AL - aluminum	13	
		CS - carbon steel	38	
3"	SF320FGXFG	SS - stainless steel	37	9-9/16"
		AL - aluminum	20	
		CS - carbon steel	51	
4"	SF420FGXFG	SS - stainless steel	51	9-25/32"
		AL - aluminum	27	

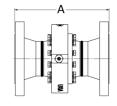




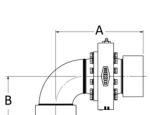
Split Flange Style 20 - 300# Flange x 300# Flange

Size	Part #	Material	Weight (lbs.)	Dimension A	
		CS - carbon steel	27		
2"	SF220PFXPF	SS - stainless steel	27	9-3/8"	
		AL - aluminum	15		
		CS - carbon steel	47		
3"	SF320PFXPF	SS - stainless steel	47	10-9/32"	
		AL - aluminum	23		
		CS - carbon steel	70		
4"	SF420PFXPF	SS - stainless steel	69	10-19/32"	
		AL - aluminum	33		







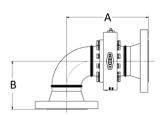


Split Flange Style 30 - FNPT x FNPT

Size Part #		Material	Weight (lbs.)	Dimensions	
Size	Pail#	Material	3 3 (11)	Α	В
		CS - carbon steel	17		
2" SF230FXF	SF230FXF	SS - stainless steel	17	8-9/16"	4-11/16"
		AL - aluminum	12		
		CS - carbon steel	26		5-1/8"
3"	SF330FXF	SS - stainless steel	26	9-5/32"	
		AL - aluminum	16		
		CS - carbon steel	39		
4" SF430FXF	SF430FXF	SS - stainless steel	39	10-5/32"	6-3/8"
		AL - aluminum	19		

Split Flange Style 30 - 150# Flange x 150# Flange

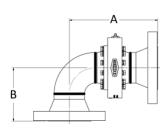




Size Part #		Material	Weight (lbs.)	Dimensions	
Size	Pait#	iviaterial	Weight (ibs.)	Α	В
		CS - carbon steel	25		
2"	SF230FGXFG	SS - stainless steel	25	9-11/32"	5-15/32"
		AL - aluminum	14		
		CS - carbon steel	41		5-25/32"
3"	SF330FGXFG	SS - stainless steel	41	9-25/32"	
		AL - aluminum	21		
		CS - carbon steel	57		
4" SI	SF430FGXFG	SS - stainless steel	56	10-13/16"	7-1/32"
		AL - aluminum	28	1	

Split Flange Style 30 - 300# Flange x 300# Flange





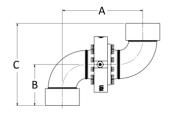
Size	Part #	Material	Weight (lbs.)	Dimensions	
	Pait#	iviaterial	Weight (156.)	Α	В
		CS - carbon steel	29		
2"	SF230PFXPF	SS - stainless steel	28	9-21/32"	5-25/32"
		AL - aluminum	16		
		CS - carbon steel	50		7-1/32"
3"	SF330PFXPF	SS - stainless steel	50	11-1/32"	
		AL - aluminum	24		
		CS - carbon steel	75		
4" SF430PFXPF	SF430PFXPF	SS - stainless steel	76	11-3/16"	7-13/32"
		AL - aluminum	35		



Split Flange Style 40 - FNPT x FNPT

Size	Part #	Material	Weight (lbs.)	Dimensions			
Size	Fait#	Waterial	Weight (ibo.)	Α	В	С	
		CS - carbon steel	19		4-13/16"		
2"	SF240FXF	SS - stainless steel	18	9-7/8"		9-21/32"	
		AL - aluminum	12				
		CS - carbon steel	29		5-1/8"	10-1/4"	
3"	SF340FXF	SS - stainless steel	29	10-1/32"			
		AL - aluminum	17				
		CS - carbon steel	45				
4"	SF440FXF	SS - stainless steel	44	11-25/32"	" 6-3/8"	12-3/4"	
		AL - aluminum	21				

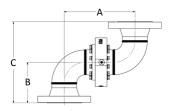




Split Flange Style 40 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)	Dimensions			
Size	rait #	Material	moight (ibol)	Α	В	С	
	2" SF240FGXFG	CS - carbon steel	26		5-15/32"		
2"		SS - stainless steel	26	9-7/8"		10-29/32"	
		AL - aluminum	16				
		CS - carbon steel	44			11-1/2"	
3"	SF340FGXFG	SS - stainless steel	43	10-1/32"	5-3/4"		
		AL - aluminum	22				
		CS - carbon steel	62				
4"	SF440FGXFG	SS - stainless steel	62	11-25/32"	25/32" 7"	14"	
		AL - aluminum	30				

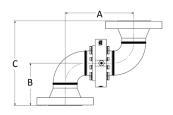




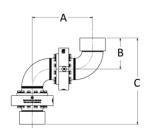
Split Flange Style 40 - 300# Flange x 300# Flange

Size	Part #	Material Weight (lbs.		Dimensions		
OIZC	I di c ii	Material		Α	В	С
		CS - carbon steel	30			
2"	SF240PFXPF	SS - stainless steel	30	9-7/8"	5-3/4"	11-1/2"
		AL - aluminum	16			
		CS - carbon steel	53		6-1/8"	12-1/4"
3"	SF340PFXPF	SS - stainless steel	53	10-1/32"		
		AL - aluminum 25				
		CS - carbon steel	81			
4"	SF440PFXPF	SS - stainless steel	80	11-25/32"	7-3/8"	14-3/4"
		AL - aluminum	37			





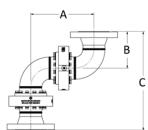




Split Flange Style 50 - FNPT x FNPT

Size	Part #	Material	Weight (lbs.)		Dimensions		
Size	Pail#	Waterial Weight (1861)		Α	В	С	
		CS - carbon steel	31				
2"	SF250FXF	SS - stainless steel	31	9-7/8"	4-11/16"	13-1/4"	
		AL - aluminum	22				
		CS - carbon steel	46		5-1/8"	14-9/32"	
3"	SF350FXF	SS - stainless steel	45	10-1/32"			
		AL - aluminum	30	-			
		CS - carbon steel	65		6-3/8"		
4"	SF450FXF	SS - stainless steel	65	11-25/32"		16-1/2"	
		AL - aluminum	37				

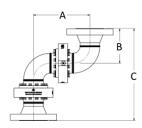




Split Flange Style 50 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)		Dimensions		
Size	I dit#	Waterial		Α	В	С	
		CS - carbon steel	39				
2"	SF250FGXFG	SS - stainless steel	38	9-7/8"	5-1/2"	14-7/8"	
		AL - aluminum	24				
		CS - carbon steel	60		5-3/4"	15-17/32"	
3"	SF350FGXFG	SS - stainless steel	59	10-1/32"			
		AL - aluminum	35				
		CS - carbon steel	82		7"		
4"	SF450FGXFG	SS - stainless steel	82	11-25/32"		17-25/32"	
		AL - aluminum	46				





Split Flange Style 50 - 300# Flange x 300# Flange

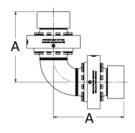
Size	Part #	Material	Weight (lbs.)		Dimensions		
Size	rait#	Material	Weight (ibo.)	Α	В	С	
	SF250PFXPF	CS - carbon steel	42				
2"		SS - stainless steel	42	9-7/8"	5-3/4"	15-3/8"	
		AL - aluminum	26				
		CS - carbon steel	69		6-1/8"	16-9/32"	
3"	SF350PFXPF	SS - stainless steel	69	10-1/32"			
		AL - aluminum	38				
		CS - carbon steel	101				
4"	SF450PFXPF	SS - stainless steel	100	11-25/32"	7-3/8"	18-17/32"	
		AL - aluminum	52	1			



Split Flange Style 60 - FNPT x FNPT

Size	Part #	Material	Weight (lbs.)	Dimension A
		CS - carbon steel	30	
2"	SF260FXF	SS - stainless steel	30	8-5/8"
		AL - aluminum	22	
		CS - carbon steel	43	
3"	SF360FXF	SS - stainless steel	43	9-5/32"
		AL - aluminum	29	
		CS - carbon steel	60	
4"	SF460FXF	SS - stainless steel	59	10-1/8"
		AL - aluminum	35	

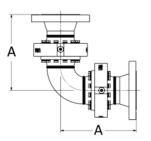




Split Flange Style 60 - 150# Flange x 150# Flange

Size	Part #	Material	Weight (lbs.)	Dimension A
		CS - carbon steel	37	
2"	SF260FGXFG	SS - stainless steel	38	9-3/8"
		AL - aluminum	24	
		CS - carbon steel	57	
3"	SF360FGXFG	SS - stainless steel	57	9-25/32"
		AL - aluminum	34	
		CS - carbon steel	77	
4"	SF460FGXFG	SS - stainless steel	77	10-3/4"
		AL - aluminum	44	

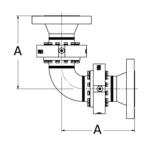




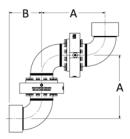
Split Flange Style 60 - 300# Flange x 300# Flange

Size	Part #	Material	Weight (lbs.)	Dimension A	
		CS - carbon steel	41		
2"	SF260PFXPF	SS - stainless steel	41	9-5/8"	
		AL - aluminum	26		
		CS - carbon steel	66		
3"	SF360PFXPF	SS - stainless steel	66	10-5/32"	
		AL - aluminum	37		
		CS - carbon steel	96		
4"	SF460PFXPF	SS - stainless steel 95		11-1/8"	
		AL - aluminum	50		







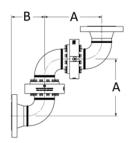


Split Flange Style 70 - FNPT x FNPT

Size	Part #	Material	Weight (lbs.)	Dimensions	
Size	I dit#	Waterial		Α	В
		CS - carbon steel	33		
2"	" SF270FXF	SS - stainless steel	32	9-7/8"	4-11/16"
		AL - aluminum	23		
	SF370FXF	CS - carbon steel	49		5-1/8"
3"		SS - stainless steel	48	10-1/32"	
		AL - aluminum	31		
		CS - carbon steel	71		
4"	SF470FXF	SS - stainless steel	70	11-25/32"	6-3/8"
		AL - aluminum	39		

Split Flange Style 70 - 150# Flange x 150# Flange

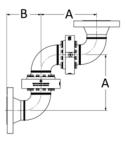




Size	Part #	Part # Material Weight (lb		Dimensions	
Size	Fait#			A	В
		CS - carbon steel	41		
2"	SF270FGXFG	SS - stainless steel	40	9-7/8"	5-1/2"
		AL - aluminum	25		
		CS - carbon steel	63		5-25/32"
3"	SF370FGXFG	SS - stainless steel	62	10-1/32"	
		AL - aluminum	36		
		CS - carbon steel	88		
4"	SF470FGXFG	SS - stainless steel	88	11-25/32"	7"
		AL - aluminum	48		

Split Flange Style 70 - 300# Flange x 300# Flange





Size	Part #	Material	Weight (lbs.)	Dimensions	
Size	Fait#	Waterial	Treight (ibel)	Α	В
		CS - carbon steel	44		
2"	2" SF270PFXPF	SS - stainless steel	44	9-7/8"	5-1/2"
		AL - aluminum	27		
		CS - carbon steel	72		5-25/32"
3"	SF370PFXPF	SS - stainless steel	72	10-1/32"	
		AL - aluminum	39		
		CS - carbon steel	106		
4"	SF470PFXPF	SS - stainless steel	106	11-25/32"	7-3/8"
		AL - aluminum	54		



Split Flange Swivel Components

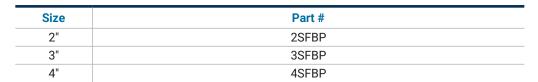
Bearing Packs

Feature

· Single wide-set bearing race for high moment loads

Materials

- · Through hardened forged carbon steel
- Carbon steel ball bearings
- FKM dust seals





Nose Pieces

Feature

· 2 required per bearing pack

Size	Aluminum Part #	Carbon Steel Part #	316 Stainless Steel Part #
2"	2SFNPAL	2SFNPCS	2SFNPSS
3"	3SFNPAL	3SFNPCS	3SFNPSS
4"	4SFNPAL	4SFNPCS	4SFNPSS



Seal Kits

Features

- · Kits contain: seals, PTFE retainer, carbon steel bolts, and lock washers
- 1 required per bearing pack

Size	Baylast™ Part #	FKM Part #	PTFE Part #	EPDM Part #	Low Temperature FKM Part #	FDA Nitrile Rubber Part #
2"	2SFSK-BAYLAST	2SFSK-VI	2SFSK-TES	2SFSK-EP	2SFSK-LVI	2SFSK-FB
3"	3SFSK-BAYLAST	3SFSK-VI	3SFSK-TES	3SFSK-EP	3SFSK-LVI	3SFSK-FB
4"	4SFSK-BAYLAST	4SFSK-VI	4SFSK-TES	4SFSK-EP	4SFSK-LVI	4SFSK-FB



Split Flange Swivel Locking Kits

Applications

- Locks the swivel into a horizontal position
- · Not to be used vertically

Feature

· Single or multiple hole design

Material

· Carbon steel

Size	Description	Part #
2"	locking multiple hole T-handle kit for split flange swivel joints	LA-2SFLOCKTHK-M
3"/4"	locking single hole T-handle kit for split flange swivel joints	LA-SFLOCKTHK-S
	locking multiple hole T-handle kit for split flange swivel joints	LA-SFLOCKTHK-M



Warning: This item is only intended to restrain the rotation during storage and is limited to a maximum of 12 in-lbs. of torque.

Split Flange Swivel Joint Seal Replacement Procedure

To change the seals in a Dixon® split flange swivel joint you will need the following items:

- 1/2" wrench or socket wrench with 1/2" sockets
- Torque wrench
- · Application-appropriate grease
- · Repair kit

Follow your company guidelines to properly shut down the system and confirm there is no residual pressure in the line. Support or remove any components necessary to disconnect at least one nose piece.

2 Remove all the bolts and washers from one of the nose pieces. Pick the side that gives the best access to the seal gland.



3a Remove and discard the old O-rings and PTFE H-ring. Clean the seal gland area.



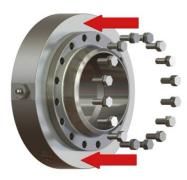
3b Lubricate the body and sleeve, new H-ring, and O-rings with grease.



4 Install the replacement O-rings and the new H-ring. Make sure the O-rings are set in on each side of the H-ring. Be careful not to pinch the O-rings during reassembly.



5 Reinstall the nose piece using the new bolts and washers in the replacement kit. Do not reuse old bolts and washers.



6 Torque the bolts to 25 ft-lbs. in a star pattern

Pressure testing is recommended prior to returning the swivel joint to service. If needed, this is a good time to clean and repaint any carbon steel parts to help protect them from the elements.

Once the seal replacement and pressure testing are complete the unit can be returned to service.



High Capacity Swivel Joints



Grease

fitting /

bearing port

O-ring dust seals (2)

Applications

- For use in industries from petroleum, steel producing, blending plants, petrochemical, refining, mining, distilling, paint plants, farm irrigation and fertilizing, wastewater treatment, food and beverage process equipment, marine, and many more
- · Ideal for high moment load applications on loading arms

Sizes

· 2", 3", and 4"

Features

- Bearing pack design allows easy seal change without removing the ball bearings
- Simple maintenance: remove one nose piece, replace seal pack, and reinstall with little downtime
- In-stream seal separates the wetted area from the ball bearings, allowing for longer bearing pack life compared to conventional swivels
- Dual wide-set bearing race and high strength bolts for higher moment loads
- · Compact design for low-profile applications
- · Full penetration weld

Materials

- Bearing pack: through hardened forged high-carbon alloy
- Material contact surfaces: stainless steel, carbon steel nose pieces
- Seals: Baylast™, FKM, PTFE, and more upon request

Specifications

- · Pressure rating: up to 1,000 PSI
- Standard temperature range with Baylast™ seals is -30°F to 212°F (-34°C to 100°C); contact factory for other temperature requirements

Available options

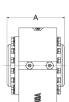
 Swivel end configurations: 150 lbs. and 300 lbs. flanges, FNPT, MNPT, butt weld, TTMA, and others upon request

High Capacity Swivel Joints Numbering System

Ball bearings

HC	2	20	F	X	F	CS	1	1
High Capacity	Sizes Inches	Style	End Connection	x	End Connection	Nose Piece	Seal Material	Grease
НС	2 = 2"	20	F (FNPT)	х	F (FNPT)	CS carbon steel	0 = Baylast	0 = Standard
	3 = 3"	30	W (weld)	Х	W (weld)	SS 316L stainless steel	1 = FKM	1 = Food grade
	4 = 4"	40	FG (150#)	Х	FG (150#)		2 = PTFE	2 = Silicone
		50	PF (300#)	Х	PF (300#)		3 = EPDM	3 = Tribolube
		60	TF (TTMA)	Х	TF (TTMA)		4 = FDA nitrile rubber	4 = Low temperature
		70	BP (BSPP)	х	BP (BSPP)		A = low temp FKM	
		80	BT (BSPT)	Х	BT (BSPT)			
		10	M (MNPT)		M (MNPT)			

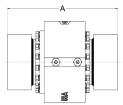




High Capacity Split Flange Style 20 - Weld x Weld

Size	Part #	Material	Weight	Dimensions
2"	HC220WXW	CS - carbon steel	23	5-23-/32"
۷		SS - stainless steel	24	3-23-732
3"	HC320WXW	CS - carbon steel	29	5-23-/32"
3		SS - stainless steel	29	J-Z3-/3Z
4"	HC420WXW	CS - carbon steel	42	6-3/16"
4		SS - stainless steel	42	0-3/10





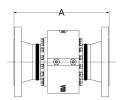
High Capacity Split Flange Style 20 - FNPT x FNPT

Size	Part #	Material	Weight	Dimensions
2"	HC220FXF	CS - carbon steel	27	9-3/32"
Z	HCZZUFXF	SS - stainless steel	27	9-3/32
0.11		CS - carbon steel	36	0.01.00
3"	HC320FXF	SS - stainless steel	36	9-31/32"
4"	110420EVE	CS - carbon steel	56	10.15/16"
4"	HC420FXF	SS - stainless steel	56	10-15/16"

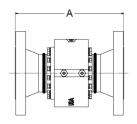


High Capacity Split Flange Style 20 - 150# Flange x 150# Flange

Size	Part #	Material	Weight	Dimensions
2"	HC220FGXFG	CS - carbon steel	35	10.00/20"
Z	HCZZUFGXFG	SS - stainless steel	35	10-23/32"
0.11	HC320FGXFG	CS - carbon steel	51	44.7/00"
3"		SS - stainless steel	52	11-7/32"
A"	LIC 420FOVEO	CS - carbon steel	74	10.7/20"
4"	HC420FGXFG	SS - stainless steel	74	12-7/32"







High Capacity Style 20 - 300# Flange x 300# Flange

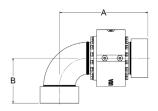
Size	Part #	Material	Weight	Dimensions
2"	HC220PFXPF	CS - carbon steel	38	11-7/32"
Z	HCZZUPFXPF	SS - stainless steel	38	11-7/32
011	HC320PFXPF	CS - carbon steel	60	44.04.00
3"		SS - stainless steel	61	11-31/32"
A"	HC420PFXPF	CS - carbon steel	93	10.01/00"
4"		SS - stainless steel	94	12-31/32"



High Capacity Split Flange Style 30 - FNPT x FNPT

Size	Part #	Material	Weight	Dimensions		
			_	Α	В	
2"	LICOSOFYE	CS - carbon steel	29	10.10./22"	4 1 1 /1 (
Z	HC230FXF	SS - stainless steel	29	10-13/32"	4-11/16"	
0.11	HC330FXF	CS - carbon steel	40	10.07.000		
3"		SS - stainless steel	40	10-27/32"	5-1/8"	
4"	110420575	CS - carbon steel	63	10.0/16"	6-3/8"	
4"	HC430FXF	SS - stainless steel	63	12-9/16"		

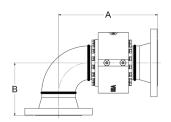




High Capacity Split Flange Style 30 - 150# Flange x 150# Flange

Size	Part #	Material	Weight	Dimensions		
				Α	В	
0 11000050750	CS - carbon steel	37	11 7/00"	F 1 /O"		
2"	HC230FGXFG	SS - stainless steel	37	11-7/32"	5-1/2"	
0"	11000050750	CS - carbon steel	55	44.45.000		
3"	HC330FGXFG	SS - stainless steel	55	11-15/32"	5-3/4"	
4"	LIC 420FOVEC	CS - carbon steel	82	12.2/16"	7"	
4"	HC430FGXFG	SS - stainless steel	82	13-3/16"		

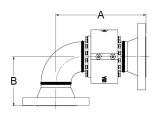




High Capacity Split Flange Style 30 - 300# Flange x 300# Flange

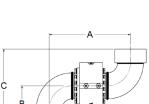
Size	Part #	Material	Weight	Dimensions		
				Α	В	
0" 1100000057055	CS - carbon steel	40	11 15 (20)	F 0/4"		
2"	HC230PFXPF	SS - stainless steel	40	11-15/32"	5 -3/4"	
0"	LICOCODEVE	CS - carbon steel	64	11.07/00"		
3"	HC330PFXPF	SS - stainless steel	64	11-27/32"	6-1/8"	
4 "	LICASODEVDE	CS - carbon steel	102	12.0/16"	7-13/32"	
4"	HC430PFXPF	SS - stainless steel	101	13-9/16"		





51





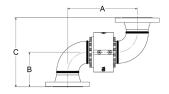
High Capacity Split Flange Style 40 - FNPT x FNPT

Size	Part #	Material	Weight	Dimensions		
				Α	В	С
0"	2" HC240FXF	CS - carbon steel	30	11 00 /00"	4 11 /1 ("	9-3/8"
2		SS - stainless steel	30	11-23/32"	4-11/16"	
0.11	11004057/5	CS - carbon steel	44	11-23/32"	5-1/8"	10-1/4"
3"	HC340FXF	SS - stainless steel	44			
4"	LICAAOEVE	CS - carbon steel	71	4.0.44.611	6.0.(0)	12-3/4"
4"	HC440FXF	SS - stainless steel	71	14-3/16"	6-3/8"	

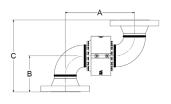


High Capacity Split Flange Style 40 - 150# Flange x 150# Flange

Size	Part #	Part # Material		Dimensions		
				Α	В	С
0"	0 11004050750	CS - carbon steel	39	11 00/00"	F 1 /O"	11"
2"	HC240FGXFG	SS - stainless steel	39	11-23/32"	5-1/2"	
0.11	11004050750	CS - carbon steel	59	11-23/32"	5-3/4"	11-1/2"
3"	HC340FGXFG	SS - stainless steel	59			
4"	LICAAOFOVEO	CS - carbon steel	90	140/16"	7"	14"
4"	HC440FGXFG	SS - stainless steel	89	14-3/16"		







High Capacity Split Flange Style 40 - 300# Flange x 300# Flange

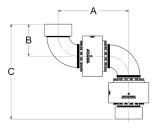
Size	Part #	Material	Weight	Dimensions			
				Α	В	С	
2"	2" HC240PFXPF	CS - carbon steel	42	11 00/00"	5-3/4"	11-1/2"	
2	HC240PFXPF	SS - stainless steel	42	11-23/32"			
0"	LICOAODEVDE	CS - carbon steel	68	11-23/32"	6-1/8"	10 1 / 4 !!	
3"	HC340PFXPF	SS - stainless steel	68			12-1/4"	
4"	LICAAODEVDE	CS - carbon steel	109	140/16	7 40 (00"	14-13/16"	
4	HC440PFXPF	SS - stainless steel	108	14-3/16"	7 -13/32"		



High Capacity Split Flange Style 50 - FNPT x FNPT

Size	Part #	Material	Weight	Dimensions		
				Α	В	С
2"	HC250FXF	CS - carbon steel	54	11 00/00"	4-11/16"	1 5 0 /00"
2	HUZOUFAF	SS - stainless steel	54	11-23/32"		15-3/32"
0"	LICOFOEVE	CS - carbon steel	72	11 00 (00"	5-1/8"	4 5 04 (00)
3"	HC350FXF	SS - stainless steel	73	11-23/32"		15-31/32"
4"	LICAEOUVE	CS - carbon steel	114	14-3/16"	6-3/8"	10 1E/16"
4"	HC450FXF	SS - stainless steel	113			18-15/16"

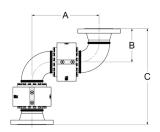




High Capacity Split Flange Style 50 - 150# Flange x 150# Flange

Size	Part #	Material	Weight	D	imensions	
				Α	В	С
2"	HC250FGXFG	CS - carbon steel	63	11 00/00"	F 1 /O"	16-23/32"
2	HCZ5UFGXFG	SS - stainless steel	62	11-23/32"	5-1/2"	
0"	HOOFOFOVEO	CS - carbon steel	88	11 00 (00)	5-3/4"	17-7/32"
3"	HC350FGXFG	SS - stainless steel	88	11-23/32"		
4"	LICAFOLOVEO	CS - carbon steel	132	140/16"	711	20-7/32"
4	HC450FGXFG	SS - stainless steel	131	14-3/16"	7"	

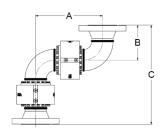




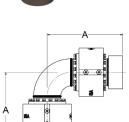
High Capacity Split Flange Style 50 - 300# Flange x 300# Flange

Size	Part #	Material	Weight	Dimensions		
				Α	В	С
2"	HC250PFXPF	CS - carbon steel	66	11 00/00"	5-3/4"	17-7/32"
2	HCZSUPFXPF	SS - stainless steel	65	11-23/32"		
0.11	LICOFOREVEE	CS - carbon steel	97	11 00 (00)	6-1/8"	17-31/32"
3"	HC350PFXPF	SS - stainless steel	97	11-23/32"		
A "	LICAFODEVDE	CS - carbon steel	152	140/16	7.40.(00)	20-31/32"
4"	HC450PFXPF	SS - stainless steel	151	14-3/16"	7-13/32"	







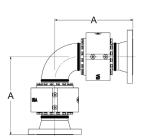


High Capacity Split Flange Style 60 - FNPT x FNPT

Size	Part #	Material	Weight	Dimensions
2"	LICOCOEVE	CS - carbon steel	52	10.10/00"
	HC260FXF	SS - stainless steel	52	10-13/32"
3"	HC360FXF	CS - carbon steel	69	10.07.00
		SS - stainless steel	69	10-27/32"
4"	HC460FXF	CS - carbon steel	106	10.0/16"
		SS - stainless steel	105	12-9/16"



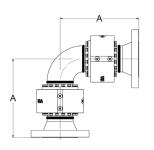
High Capacity Split Flange Style 60 - 150# Flange x 150# Flange



Size	Part #	Material	Weight	Dimensions
2"	HC260FGXFG	CS - carbon steel	61	11-7/32"
۷	HCZOUFGXFG	SS - stainless steel	60	11-7/32
0"	HC360FGXFG	CS - carbon steel	84	11 15 (00)
3"		SS - stainless steel	84	11-15/32"
4"	LICAGOECVEC	CS - carbon steel	125	10.0/16"
4	HC460FGXFG	SS - stainless steel	124	13-3/16"



High Capacity Split Flange Style 60 - 300# Flange x 300# Flange



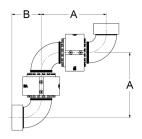
Size	Part #	Material	Weight	Dimensions
2"	HC260PFXPF	CS - carbon steel	64	11 15/20"
Z	HCZOUPFXPF	SS - stainless steel	64	11-15/32"
0"	HC360PFXPF	CS - carbon steel	93	14.07./00!!
3"		SS - stainless steel	93	11-27/32"
4"	LICACODEVDE	CS - carbon steel	144	10.0/16"
4	HC460PFXPF	SS - stainless steel	143	13-9/16"



High Capacity Split Flange Style 70 - FNPT x FNPT

Size	Part #	Material	Weight	Dime	nsions	
				Α	В	
2"	HC270FXF	CS - carbon steel	56	11 00/00"	4-11/16"	
2	HCZ/UFXF	SS - stainless steel	56	11-23/32"	4-11/10	
011	110070575	CS - carbon steel	77	44.00.000	5-1/8"	
3"	HC370FXF	SS - stainless steel	76	11-23/32"		
4"	110470EVE	CS - carbon steel	121	4.0.44.611	6.0.40	
4"	HC470FXF	SS - stainless steel	121	14-3/16"	6-3/8"	

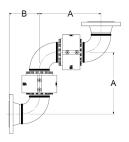




High Capacity Split Flange Style 70 - 150# Flange x 150# Flange

Size	Part #	Material	Weight	Dimensions		
				Α	В	
2"	110070F0VF0	CS - carbon steel	65	11 00 /00"	5-1/2"	
2	HC270FGXFG	SS - stainless steel	64	11-23/32"		
0.11	11007050750	CS - carbon steel	92	44.00.000	5-3/4"	
3"	HC370FGXFG	SS - stainless steel	92	11-23/32"		
4"	HC470FGXFG	CS - carbon steel	140	140/16"	7"	
4"	HC4/UFGXFG	SS - stainless steel	139	14-3/16"	/	

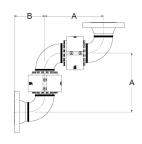




High Capacity Split Flange Style 70 - 300# Flange x 300# Flange

Size	Part #	Material	Weight	Dime	nsions	
				Α	В	
2"	HC270PFXPF	CS - carbon steel	68	11 00 /00"	5-3/4"	
2	HC2/UPFXPF	SS - stainless steel	67	11-23/32"	5-5/4	
0.11	LIGOZODEVDE	CS - carbon steel	101	11 00 (00)	6-1/8"	
3"	HC370PFXPF	SS - stainless steel	100	11-23/32"		
4"	LICAZODEVDE	CS - carbon steel	159	140/16"	7.10.400	
4"	HC470PFXPF	SS - stainless steel	158	14-3/16"	7-13/32"	





55

High Capacity Split Flange Swivel Components

Bearing Packs



Feature

· Dual wide-set bearing race for higher moment loads

Materials

- Through hardened forged carbon steel
- Carbon steel ball bearings
- FKM dust seals

0:	D
Size	Part #
2"	2HCBP
3"	3HCBP
4"	4HCBP

Nose Pieces

Features

- 2 required per bearing pack
- Schedule 80 butt weld ends



Material

· Carbon steel and 316 stainless steel

Size	Carbon Steel Part #	316 Stainless Steel Part #	
2"	2HCNPCS	2HCNPSS	
3"	3HCNPCS	3HCNPSS	
4"	4HCNPCS	4HCNPSS	

Seal Kits



Features

- · Kits contain: seals, PTFE retainer, carbon steel bolts, and lock washers
- 1 required per bearing pack

Size	Baylast™ Part #	FKM Part #	PTFE Part #	EPDM Part #	Low Temp. FKM Part #	FDA Nitrile Rubber Part #
2"	2HCSK-BAYLAST	2HCSK-VI	2HCSK-TES	2HCSK-EP	2HCSK-LVI	2HCSK-FB
3"	3HCSK-BAYLAST	3HCSK-VI	3HCSK-TES	3HCSK-EP	3HCSK-LVI	3HCSK-FB
4"	4HCSK-BAYLAST	4HCSK-VI	4HCSK-TES	4HCSK-EP	4HCSK-LVI	4HCSK-FB



High-Capacity Swivel Joint Seal Replacement Procedure

To change the seals in a Dixon® split flange swivel joint you will need the following items:

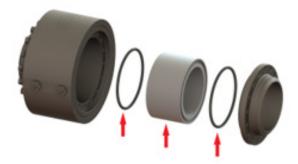
- 1/2" wrench or socket wrench with 1/2" socket
- Torque wrench
- Application-appropriate grease
- Repair kit

Follow your company guidelines to properly shut down the system and confirm there is no residual pressure in the line. Support or remove any components necessary to disconnect at least one nose piece.

2 Remove all the bolts and washers from one of the nose pieces. Pick the side that gives the best access to the seal gland.



Remove and discard the old O-rings and PTFE H-ring. Clean the seal gland area.



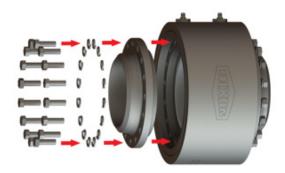
4 Lubricate the seal gland areas located on bottom of nose pieces touching the O-rings, the new H-ring seal grooves, and O-rings with grease.



5 Install the replacement O-rings and the new H-ring. Make sure the O-rings are set in each groove on the top and bottom of the H-ring. Be careful not to pinch the O-rings during reassembly.



6 Reinstall the nose piece using the new bolts and washers in the replacement kit. Do not reuse old bolts and washers.



7 Torque the bolts to 25 ft-lbs. in a star pattern



Pressure testing is recommended prior to returning the swivel joint to service. If needed, this is a good time to clean and repaint any carbon steel parts to help protect them from corrosion.

Once the seal replacement and pressure testing are complete the unit can be returned to service.

Dixon® Loading Arms

A loading arm is a dynamic system allowing for the transfer of media such as liquids, liquefied gas, or dry bulk from one storage vessel to another. Consisting of a combination of swivel joints, pipe and/or hose legs, a counterbalance, and various end connections, loading arms can be configured for both top loading and bottom loading applications. Dixon loading arms are ideal for a wide range of applications, transferring product to and from tank trucks or rail cars as well as to drums and totes.

Sizes

2", 3", 4", 6 ", and more upon request

Features

- · Engineered with serviceability in mind
- · Counterbalance options include compression springs, torsion springs, and counterweights
- Standard and customized options available
- · Torsion spring counterbalance offered in left and right hand
- Multiple spring rates available for different load requirements
- · Counterweight option available with 2 or 4 sliding weights
- · Wide variety of end connections and accessories available

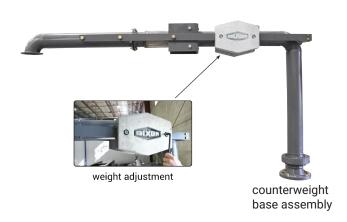
Materials

- Pipe leg materials offered: aluminum, carbon steel, and 316 stainless steel
- Available seals include: nitrile rubber, FKM, low-temperature FKM, PTFE, EPDM, and food-grade nitrile
- Drop hoses available in composite or stainless steel

NOTE: Visit dixonvalve.com/en/dixon-loading-arms for additional product information or call 888.226.4673.

Dixon Loading Arm Configurations

Counterweight Loading Arms



A-Frame Loading Arm with Rigid Drop Pipe



A-Frame Loading Arm with Drop Hose



Horizontal Hose Loader





Dixon® Loading Arm Configurations



NOTE: Visit dixonvalve.com/en/dixon-loading-arms for additional product information or call 877.963.4966.

Base Swivels with Counterbalance



left hand style



right hand style

Sizes

- · Carbon steel V-ring: 3", 4", and 6"
- · Carbon steel split flange: 2", 3", and 4"
- 316 stainless steel split flange: 2", 3", and 4"

Features

- · Torsion spring counterbalance offered in right or left hand
- Style 50 or 70 available for base swivels based on configuration and flow of media
- · Connecting arm and clamp included

Materials

- · Base swivel materials offered: carbon steel and 316 stainless steel
- · Available seals include: nitrile rubber, FKM, low temperature FKM, PTFE, EPDM, or food-grade nitrile rubber

Specifications

- Standard configurations below include carbon steel split flange base swivel, ESB1 torsion spring counterbalance, 150# flange inlet, and TTMA flange outlet
- · Connection options include: 150# flange, 300# flange, and TTMA flange
- · Other options available upon request
- Three spring rates available: Light, medium, and heavy. Contact Dixon® to determine which is best for your application.

Orientation	Seals	Counterbalance Spring	3" Part #	4" Part #
		Light	AB3G00000000000	AB4G00000000000
	Nitrile rubber	Medium	BB3G00000000000	BB4G00000000000
LIEDLI		Heavy	CB3G00000000000	CB4G000000000000
UFRH		Light	AV3G00000000000	AV4G000000000000
	FKM	Medium	BV3G00000000000	BV4G00000000000
		Heavy	CV3G00000000000	CV4G0000000000
	Nitrile rubber	Light	EB3G00000000000	EB4G00000000000
		Medium	FB3G00000000000	FB4G000000000000
		Heavy	GB3G00000000000	GB4G0000000000
UFLH		Light	EV3G00000000000	EV4G00000000000
	FKM	Medium	FV3G00000000000	FV4G0000000000
		Heavy	GV3G00000000000	GV4G0000000000



upfeed right-hand (UFRH)



upfeed left-hand (UFLH)



horizontal upfeed right-hand (HUFRH)*



horizontal upfeed left-hand (HUFLH)*



downfeed right-hand (DFRH)*



downfeed left-hand (DFLH)*



horizontal downfeed right-hand (HDFRH)*



horizontal downfeed left-hand (HDFLH)*



Loading Arm Swivels

Features

- TTMA-flanged aluminum loading arm swivel
- Optional D-handle or ball handle is used to guide the connection of the API load coupler to the adapter on the tank truck
- Optional long radius elbow improves the flow into the API load coupler and provides spacing between the load arm and the tank truck
- Can be used with flange extensions and other TTMA flanged accessories
- Available seals include: nitrile rubber, FKM, low temperature FKM, EPDM, or food-grade nitrile

•		
4		
	style 30 short radius	





style 40



style 50

Description	Handle	Seal	3" Part #	4" Part #
atula 20	na handla	Nitrile rubber	320TFXTFAL00000	420TFXTFAL00000
style 20	no handle	FKM	320TFXTFAL11000	420TFXTFAL11000
	D-handle	Nitrile rubber	33HTFXTFAL00000	43HTFXTFAL00000
	D-Hariule	FKM	33HTFXTFAL11000	43HTFXTFAL11000
style 30 short	ball	Nitrile rubber	33BTFXTFAL00000	43BTFXTFAL00000
radius	handle	FKM	33BTFXTFAL11000	43BTFXTFAL11000
	no handle	Nitrile rubber	330TFXTFAL00000	430TFXTFAL00000
	no nandie	FKM	330TFXTFAL11000	430TFXTFAL11000
	D-handle	Nitrile rubber		43HTFTFLAL00000
	D-Handle	FKM		43HTFTFLAL11000
style 30	ball handle	Nitrile rubber		43BTFTFLAL00000
long radius		FKM		43BTFTFLAL11000
	no handle	Nitrile rubber		430TFTFLAL00000
		FKM		430TFTFLAL11000
	D-handle	Nitrile rubber	34HTFXTFAL00000	44HTFXTFAL00000
		FKM	34HTFXTFAL11000	44HTFXTFAL11000
otulo 40	ball	Nitrile rubber	34BTFXTFAL00000	44BTFXTFAL00000
style 40	handle	FKM	34BTFXTFAL11000	44BTFXTFAL11000
	no bondlo	Nitrile rubber	340TFXTFAL00000	440TFXTFAL00000
	no handle	FKM	340TFXTFAL11000	440TFXTFAL11000
	Dhandla	Nitrile rubber	35HTFXTFAL00000	45HTFXTFAL00000
	D-handle	FKM	35HTFXTFAL11000	45HTFXTFAL11000
otylo EO	ball	Nitrile rubber	35BTFXTFAL00000	45BTFXTFAL00000
style 50	handle	FKM	35BTFXTFAL11000	45BTFXTFAL11000
	no handla	Nitrile rubber	350TFXTFAL00000	450TFXTFAL00000
	no handle	FKM	350TFXTFAL11000	450TFXTFAL11000

Loading Arm Swivel Replacement Parts

Description	Part #
1" schedule 80 aluminum nipple	ATN100X7
ball-style handle	100BHAN-AL
D-Style heavy-duty shovel handle	100DHAN-AL



100*HAN-AL



ATN100X7

TTMA Weldable Flanges

Application

 Used in applications where a device such as a valve or sight flow indicator with a TTMA flange needs to be connected to a pipe; the TTMA weldable flange is welded to the pipe and the desired device is bolted on.



TTF3AL

Features

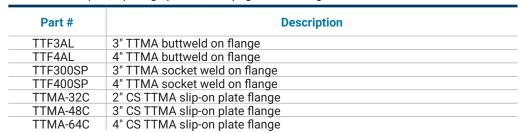
- Flanges are 3/8" thick
- Easily connect with any item that has a 3" or 4" TTMA flange

Material

Aluminum

Specification

 Flange connections are manufactured to connect with the Tank Truck Manufacturers Association (TTMA) flange pattern, see page 68 for flange dimensions.



Product instruction sheets and technical data can be viewed at dixonvalve.com



TTF400SP

TTMA PTFE Envelope Klinger® Gasket Kit

Features

• TTMA PTFE envelope Klinger® gasket with 3/8" bolts and self-locking nuts



• 3"-4"



	0 0	0
Willes.		0

400GTTFTK-3008Z

Size	Bolt Length	Part #
	1-1/2"	300GTTFTK-1508Z
	1-3/4"	300GTTFTK-1758Z
3"	2"	300GTTFTK-2008Z
	3"	300GTTFTK-3008Z
	3-1/2"	300GTTFTK-3508Z
	1-1/2"	400GTTFTK-1508Z
	1-3/4"	400GTTFTK-1758Z
4"	2"	400GTTFTK-2008Z
	3"	400GTTFTK-3008Z
	3-1/2"	400GTTFTK-3508Z



• TTMA Baylast gasket with 3/8" bolts and self-locking nuts

TTMA Baylast™ Gasket Kit

Sizes

• 3"-4"



400GTTFBL-1758Z

Size	Bolt Length	Part #
	1-1/2"	300GTTFBL-1508Z
	1-3/4"	300GTTFBL-1758Z
3"	2"	300GTTFBL-2008Z
	3"	300GTTFBL-3008Z
	3-1/2"	300GTTFBL-3508Z
	1-1/2"	400GTTFBL-1508Z
	1-3/4"	400GTTFBL-1758Z
4"	2"	400GTTFBL-2008Z
	3"	400GTTFBL-3008Z
	3-1/2"	400GTTFBL-3508Z

62



TTMA Flange Gaskets

Size	O.D.	I.D.	Thhickness	Material	Part #
2"	4-1/2"	2-5/8"	1/8"	Baylast™	200GTTFBL
	5-5/8"	3-1/2"	1/8"	Cork / nitrile rubber	300GTTFCB
	5-5/16"	3-1/4"	5/32"	PTFE envelope with Klinger filler	300GTTFTK
	5-5/8"	3-1/2"	1/8"	Klingersil® C-4300	300GTTFK
3"	5-29/32"	3-1/2"	3/32"	PTFE with fiber core	40321TF
	7-1/4"	5"	5/32"	PTFE with soft fiber core	40364TF
	7-1/4"	5"	1/8"	Baylast	40364BL
	5-5/8"	3-5/8"	1/8"	Baylast	300GTTFBL
	6-5/8"	4-9/16"	1/8"	Cork / nitrile rubber	400GTTFCB
	6-7/8"	4-5/16"	5/32"	PTFE envelope with Klinger filler	400GTTFTK
	6-5/8"	4-9/16"	1/8"	Klingersil C-4401	400GTTFK
4"	6-7/8"	4-9/16"	3/32"	PTFE with fiber core	40322TF
	8-3/8"	5-7/8"	5/32"	PTFE with soft fiber core	40323TF
	8-1/4	5-7/8	1/8"	Baylast	40323BL
	6-5/8"	4-5/8"	1/8"	Baylast	400GTTFBL



NOTE: For flange dimensions, diagrams, and additional information, please reference dixonvalve.com.

150 lb. Flange Gaskets

Features

- Standard drop-ring type all 1/16" thick
- For flange dimensional information and diagrams please reference dixonvalve.com

Size	Neoprene Part #	PTFE Part #
1"	NG10	
1-1/4"	NG15	
1-1/2"	NG20	
2"	NG25	PG25
2-1/2"	NG30	
3"	NG35	PG35
4"	NG40	PG40
5"	NG50	
6"	NG60	PG60
8"	NG80	





150 lb. PTFE Flange Gasket Kit

Features

• 150 lb. PTFE flange gasket with 5/8" bolts, nuts, and lock washers

Sizes

• 3"-4"

Size	Bolt Length	Part #
2"	3"	PG35-3008Z
3	3-1/2"	PG35-3508Z
A"	3"	PG40-3008Z
4	3-1/2"	PG40-35087



PG35-3008Z

150 lb. Neoprene Flange Gasket Kit

Features

• 150 lb. neoprene flange gasket with 5/8" bolts, nuts, and lock washers

Sizes

• 3"-4"

Size	Bolt Length	Part #
3"	3"	NG35-3008Z
3	3-1/2"	NG35-3508Z
Δ"	3"	NG40-3008Z
4	3-1/2"	NG40-3508Z



NG40-3008Z

150 lb. ANSI Forged Flanges



150 lb. Slip-On Flange

Sizes

• 1" - 12"

Features

• Raised face: Slip-On and Weld Neck

Materials

- Carbon steel
- 316 stainless steel

150 lb. Slip-On Flange

Size	Number of Bolts	Carbon Steel Part #	316 Stainless steel Part #
1"	4	SO100	SOR100
1-1/4"	4	S0125	
1-1/2"	4	SO150	SOR150
2"	4	SO200	SOR200
2-1/2"	4	SO250	
3"	4	SO300	SOR300
4"	8	SO400	SOR400
5"	8	SO500	
6"	8	S0600	SOR600
8"	8	SO800	SOR800
10"	12	SO1000	SOR1000
12"	12	S01200	SOR1200

150 lb. Weld Neck Flange



150 lb. Weld Neck Flange

Size	Number of Bolts	Carbon Steel Part #	316 Stainless steel Part #
1"	4	WN100	WNR10015
1-1/4"	4	WN125	WNR12515
1-1/2"	4	WN150	WNR15015
2"	4	WN200	WNR20015
2-1/2"	4	WN250	WNR25015
3"	4	WN300	WNR30015
4"	8	WN400	WNR40015
5"	8	WN500	WNR50015
6"	8	WN600	WNR60015
8"	8	WN800	WNR80015
10"	12	WN1000	WNR100015
12"	12	WN1200	WNR120015

Swivel Joint Grease

Application

• For preventative maintenance and repairs on swivel joints

Features

- Lithium semi-synthetic Grease
- 14oz cartridge

Size	Material	Part #
14 oz.	lithium semi-synthetic grease	SJGREASE-0
14 oz.	FDA food grade grease	SJGREASE-1
14 oz.	silicone grease	SJGREASE-2
14 oz.	low temperature grease	SJGREASE-4



SJGREASE



NPT Threaded One End Pipe Fittings

Size	Overall Length	Carbon Steel Part #	316 Stainless Steel Part #	Aluminum Part #
1"	2"	PN1000		
1-1/4"	2"	PN1250		
1-1/2"	2"	PN1500	PNR1500	
2"	2"	PN2000	PNR2000	APN2000
2-1/2"	3"	PN2500		
3"	3"	PN3000	PNR3000	APN3000
4"	4"	PN4000	PNR4000	APN4000



PN3000

NPT Threaded Female Half Couplings

Size	Carbon Steel Part #	316 Stainless Steel Part #	Aluminum Part #
1"	1HCPLGCS	1HCPLGSS	1HCPLGAL
1-1/4"	125HCPLGCS	125HCPLGSS	125HCPLGAL
1-1/2"	150HCPLGCS	150HCPLGSS	150HCPLGAL
2"	2HCPLGCS	2HCPLGSS	2HCPLGAL
2-1/2"	250HCPLGCS	250HCPLGSS	250HCPLGAL
3"	3HCPLGCS	3HCPLGSS	3HCPLGAL
4"	4HCPLGCS	4HCPLGSS	4HCPLGAL



150HCPLGSS

Grease Fittings

Carbon Steel	Carbon Steel	316 Stainless Steel
without Ball Check	with Ball Check	with Ball Check
Part #	Part #	Part #
GP	GPBCCS	GPBCSS



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Set Screws

Size	Carbon Steel Part #	316 Stainless Steel Part #
3/8"	38SET	38SETSS
7/16"	716SET	716SETSS
5/8"	58SET	58SETSS
7/8"	78SET	78SETSS
9/8"	98SET	98SETSS



78SET



38SET

TTMA Handle Kits



TTMAHK-C

Application

· For various applications that utilize 4" TTMA connections, allowing for improved ergonomics when handling hoses

Features

- · Mounting plate mates up to TTMA flange
- Lightweight construction

Size	Description	Aluminum Part #
4"	Compact with D-handle	TTMAHK-C
4"	Long with ball handle	TTMAHK-LB

TTMAHK-LB

NOTE: Nuts and bolts not included

Thread Sealant Paste

Application

· Not for use in oxygen applications





Specification

Temperature range: -50°F to 400°F (-45°C to 204°C)

Size	Part #	Optional Qty
1/4 pint	LCTS14	24
1/2 pint	LCTS1	24
1 pint	LCTS2	12
1 quart	LCTS3	12

Joint Sealant Gasket Material

Features

- · GORE-TEX interchangeable
- · Form-in-place expanded PTFE gasket material with adhesive backing
- Manufactured from 100% virgin PTFE
- Unaffected by all common chemicals (pH from 0-14)
- Unlimited shelf life
- · Resilient with low cold flow
- · Requires less force than standard gasket materials
- · Larger spools are available; consult Dixon® for price and availability

Specifications

- Pressure range: vacuum to 3000 PSI
- Temperature range: -450°F to 600°F (-268°C to 316°C)

Approval

• FDA compliant #21CFR177.1550

Size	Length	Part #
1/4"	20'	LCJS4-20
1/4"	50'	LCJS4-50
3/8"	25'	LCJS6-25
1/2"	15'	LCJS8-15
3/4"	15'	LCJS12-15





American Made PTFE Tape (Purple)

Features

- · Superior quality
- Not for use in oxygen applications

Specifications

- Temperature range: -450°F to 500°F (-268°C to 260°C)
- Thickness: 3.5 mil (0.0035 mm)

Size	Length	Part #
	520"	TTPM50-520
1/2"	700"	TTPM50-700
	1429"	TTPM50-1429
	520"	TTPM75-520
3/4"	700"	TTPM75-700
	1429"	TTPM75-1429
	520"	TTPM100-520
1"	700"	TTPM100-700
	1429"	TTPM100-1429



Industrial PTFE Tape (White)

Feature

· Not for use in oxygen applications

Specifications

- Thickness: 3.5 mil (0.0035 mm)
- Temperature range: -212°F to 500°F (-136°C to 260°C)

Size	Length	Part #	Optional Qty
	260"	TTA50	550
1/2"	520"	TTB50	500
	1296"	TTC50	250
2/4"	260"	TTA75	350
3/4"	520"	TTB75	350
1"	520"	TTB100	250



Stainless Steel PTFE Tape (Gray)

Application

· Useful on stainless steel threaded joints or connections

- · Not for use in oxygen applications
- · PTFE with nickel added, nickel acts like a ball bearing

Specifications

- Thickness: 4 mil
- Temperature range: -450°F to 550°F (-268°C to 288°C)

· Made in the U.S.

Size	Length	Part #	Optional Qty
1/2"	260"	TTA50SS	10



Industrial Heavy Duty PTFE Tape (Pink)

Feature

Specifications

- · Not for use in oxygen applications · Thickness: 4 mil
 - Temperature range: -400°F to 500°F (-240°C to 260°C)

Size	Length	Part #	Optional Qty
1/2"	540"	TTBP50	500

Approval



PTFE Tape for LP Gas (Yellow)

· Underwriters Listed

Feature

- · Not for use in oxygen applications
- **Specifications**
- · Thickness: 4 mil
- Maximum temperature: 500°F (260°C)

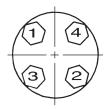
Size	Length	Part #	Optional Qty
1/2"	260"	TTA50LP	500



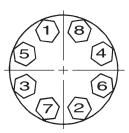


Flange Bolt Tightening Sequence

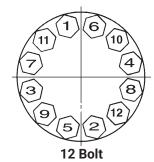
(Use appropriate gaskets and bolts)



4 Bolt



8 Bolt

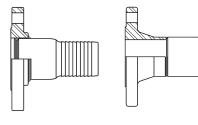


Flange Diagrams

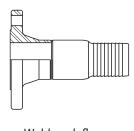
Threaded Applications 1/16" Raised Face Threaded flange

with raised face

Welded Applications



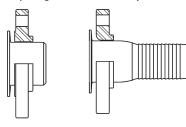
Slip-on flange with raised face



Weld neck flange with raised face

Floating Applications

(flange free to swivel)



Slip-on flange with raised face

Lap-joint flange

Dimensions of 150 Lb. ASA Steel Flanges

Nominal Pipe Size	Flange O.D.	I HICKNESS!		Diameter of Bolt Circle	Number of Bolts	Diameter of Bolt Holes	Diameter of Bolts		
1"	4-1/4"	9/16"	2"	3-1/8"	4	5/8"	1/2"		
1-1/4"	4.62"	5/8"	2-1/2"	3-1/2"	4	5/8"	1/2"		
1-1/2"	5"	11/16"	2-7/8"	3-7/8"	4	5/8"	1/2"		
2"	6"	3/4"	3-5/8"	4-3/4"	4	3/4"	5/8"		
2-1/2"	7"	7/8"	4-1/8"	5-1/2"	4	3/4"	5/8"		
3"	7-1/2"	15/16"	5"	6"	4	3/4"	5/8"		
4"	9"	15/16"	6-3/16"	7-1/2"	8	3/4"	5/8"		
5"	10"	15/16"	7-5/16"	8-1/2"	8	7/8"	3/4"		
6"	11"	1"	8-1/2"	9-1/2"	8	7/8"	3/4"		
8"	13-1/2"	1-1/8"	10-5/8"	11-3/4"	8	7/8"	3/4"		
10"	16"	1-3/16"	12-3/4"	14-1/4"	12	1"	7/8"		
12"	19"	1 1/4"	15"	17"	12	1"	7/8"		

¹ 1/16" raised face is included in the thickness

Dimensions of Tank Truck Flanges (TTMA Drilling)

Nominal Pipe Size	Flange O.D.	Thickness ¹	Diameter of Bolt Circle	Number of Bolts	Diameter of Bolt Holes	Diameter of Bolts
3"	5-5/8"	3/8"	4-7/8"	8	7/16"	3/8"
4"	6-5/8"	3/8"	5-7/8"	8	7/16"	3/8"
6"	8-7/8"	3/8"	8-1/8"	12	7/16"	3/8"

¹ Listed thickness is for aluminum flanges



ANSI Flange Dimensions

150 lb. Standard

300 lb. Standard

Nominal	Outside	Flange	Drill Template						
Pipe Size	Diameter Flange	Thickness	Number Holes	Diameter Bolts	Bolt Circle				
1/2"	3-1/2"	7/16"	4	1/2"	2-3/8"				
3/4"	3-7/8"	1/2"	4	1/2"	2-3/4"				
1"	4-1/4"	9/16"	4	1/2"	3-1/8"				
1-1/4"	4-5/8"	5/8"	4	1/2"	3-1/2"				
1-1/2"	5"	11/16"	4	1/2"	3-7/8"				
2"	6"	3/4"	4	5/8"	4-3/4"				
2-1/2"	7"	7/8"	4	5/8"	5-1/2"				
3"	7-1/2"	15/16"	4	5/8"	6"				
3-1/2"	8-1/2"	15/16"	8	5/8"	7"				
4"	9"	15/16"	8	5/8"	7-1/2"				
5"	10"	15/16"	8	3/4"	8-1/2"				
6"	11"	1"	8	3/4"	9-1/2"				
8"	13-1/2"	1-1/8"	8	3/4"	11-3/4"				
10"	16"	1-3/16"	12	3/4"	14-1/4"				
12"	19"	1-1/4"	12	3/4"	17"				

Nominal	Outside	Flange	Drill Template						
Pipe Size			Number Holes	Diameter Bolts	Bolt Circle				
1/2"	3-3/4"	9/16"	4	1/2"	2-5/8"				
3/4"	4-5/8"	5/8"	4	5/8"	3-1/4"				
1"	4-7/8"	11/16"	4	5/8"	3-1/2"				
1-1/4"	5-1/4"	3/4"	4	5/8"	3-7/8"				
1-1/2"	6-1/8"	13/16"	4	3/4"	4-1/2"				
2"	6-1/2"	7/8"	8	5/8"	5"				
2-1/2"	7-1/2"	1"	8	3/4"	5-7/8"				
3"	8-1/4"	1-1/8"	8	3/4"	6-5/8"				
3-1/2"	9"	1-3/16"	8	3/4"	7-1/4"				
4"	10"	1-1/4"	8	3/4"	7-7/8"				
5"	11"	1-3/8"	8	3/4"	9-1/4"				
6"	12-1/2"	1-7/16"	12	3/4"	10-5/8"				
8"	15"	1-5/8"	12	7/8"	13"				
10"	17-1/2"	1-7/8"	16	1"	15-1/4"				
12"	20-1/2"	2"	16	1-1/8"	17-3/4"				

600 lb. Standard

900 lb. Standard

Nominal	Outside	Flange	Drill Template						
Pipe Size	Diameter Flange Thickne		Number Holes	Diameter Bolts	Bolt Circle				
1/2"	3-3/4"	9/16"	4	5/8"	2-5/8"				
3/4"	4-5/8"	5/8"	4	3/4"	3-1/4"				
1"	4-7/8"	11/16"	4	3/4"	3-1/2"				
1-1/4"	5-1/4"	13/16"	4	3/4"	3-7/8"				
1-1/2"	6-1/8"	7/8"	4	7/8"	4-1/2"				
2"	6-1/2"	1"	8	3/4"	5"				
2-1/2"	7-1/2"	1-1/8"	8	7/8"	5-7/8"				
3"	8-1/4"	1-1/4"	8	7/8"	6-5/8"				
3-1/2"	9"	1-3/8"	8	1"	7-1/4"				
4"	10-7/5"	1-1/2"	8	1"	8-1/2"				
5"	13"	1-3/4"	8	1-1/8"	10-1/2"				
6"	14"	1-7/8"	12	1-1/8"	11-1/2"				
8"	16-1/2"	2-3/16"	12	1-1/4"	13-3/4"				
10"	20"	2-1/2"	16	1-3/8"	17"				
12"	22"	2-5/8"	20	1-3/8"	19-1/4"				

Nominal	Outside	Flange	Drill Template						
Pipe Size	Thickness I		Number Holes	Diameter Bolts	Bolt Circle				
1/2"	4-3/4"	7/8"	4	7/8"	3-1/4"				
3/4"	5-1/8"	1"	4	7/8"	3-1/2"				
1"	5-7/8"	1-1/8"	4	1"	4"				
1-1/4"	6-1/4"	1-1/8"	4	1"	4-3/8"				
1-1/2"	7"	1-1/4"	4	1-1/8"	4-7/8"				
2"	8-1/2"	1-1/2"	8	1"	6-1/2"				
2-1/2"	9-5/8"	1-5/8"	8	1-1/8"	7-1/2"				
3"	9-1/2"	1-1/2"	8	1"	7-1/2"				
3-1/2"	11-1/2"	1-3/4"	8	1-1/4"	9-1/4"				
4"	13-3/4"	2"	8	1-3/8"	11"				
6"	15"	2-3/16"	12	1-1/4"	12-1/2"				
8"	18-1/2"	2-1/2"	12	1-1/2"	15-1/2"				
10"	21-1/2"	2-3/4"	16	1-1/2"	18-1/2"				
12"	24"	3-1/8"	20	1-1/2"	21"				

Pressure Rating Chart

Spool or rotating assembly only - Pressure rating of final assembly may be derated due to end connections

Swivel Type	Material	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"	8"	10"	12"	14"	16"	18"	20"	24"
	Aluminum	150	150	150	150	150	150	150										
	Brass			300	300		300											
O-Ring	Ductile Iron			600	600		600	600										
	Carbon Steel	1000	*	1000	1000	1000	1000	1000										
	Stainless Steel	1000	*	1000	1000	1000	1000											
	Aluminum									150	150							
V-Ring	Carbon Steel				1000	1000	1000	1000	1000	1000	1000	1000	1000	1000				
	Stainless Steel				1000	1000	1000	1000	1000	1000	1000	1000	1000	*				
0 01	Carbon Steel													1000	800	1000	900	800
Cap Seal	Stainless Steel													*	800	1000	*	*
	Aluminum				600		600	600										
Split Flange	Carbon Steel				600		600	600										
	Stainless Steel				600		600	600										
High	Carbon Steel				1000		1000	1000										
Capacity Split Flange	Stainless Steel				1000		1000	1000										

^{*} Contact Dixon for additional information

Dixon® swivels are recommended for use at the following maximum Non-Shock Cold Working Pressures (NSCWP) provided in **PSI** at ambient temperature **70°F** (**21°C**) for 1" – 24" sizes:

- When using flanged ends, the pressure rating will be reduced to coincide with that of the flange being used. Carbon steel and stainless steel 150# flanges are recommended for use at 275 PSI maximum and 300# flanges at 740 PSI at ambient temperature 70°F (21°C).
- TTMA flanges are recommended for use at 150 PSI maximum at ambient temperature 70°F (21°C).
- Lubrication should be performed periodically, depending on service and operation conditions. Biannually is normally sufficient.
- All dimensions are approximate. Where critical, consult Dixon.

Vacuum/Suction Applications:

Dixon O-Ring, V-Ring, and Split Flange swivel joints are rated for full vacuum service. However, distributors and end users are encouraged to consult with our factory providing detailed information about their specific application. Certain seal materials and end connections may not be compatible with vacuum service. For V-Ring swivel joints the seal orientation must be reversed for vacuum service. Standard hydrostatic testing will be performed on all swivel joints at the factory before shipping. Vacuum testing is available upon request.



Limited Warranty

DIXON VALVE AND COUPLING COMPANY, LLC (herein called "Dixon") warrants the products described herein and manufactured by Dixon to be free from defects in material and workmanship for a period of one (1) year from date of shipment by Dixon under normal use and service. Its sole obligation under this warranty being limited to repairing or replacing, as hereinafter provided, at its option any product found to Dixon's satisfaction to be defective upon examination by it, provided that such product shall be returned for inspection to Dixon's factory within three (3) months after discovery of the defect. The repair or replacement of defective products will be made without charge for parts or labor. This warranty shall not apply to: (a) parts or products not manufactured by Dixon, the warranty of such items being limited to the actual warranty extended to Dixon by its supplier; (b) any product that has been subject to abuse, negligence, accident, or misapplication; (c) any product altered or repaired by others than Dixon; and (d) to normal maintenance services and the replacement of service items (such as washers, gaskets, and lubricants) made in connection with such services. To the extent permitted by law, this limited warranty shall extend only to the buyer and any other person reasonably expected to use or consume the goods who is injured in person by any breach of the warranty. No action may be brought against Dixon for an alleged breach of warranty unless such action is instituted within one (1) year from the date the cause of action accrues. This limited warranty shall be construed and enforced to the fullest extent allowable by applicable law.

Other than the obligation of Dixon set forth herein, Dixon disclaims all warranties, express or implied, including but not limited to any implied warranties of merchantability or fitness for a particular purpose, and any other obligation or liability. The foregoing constitutes Dixon's sole obligation with respect to damages, whether direct, incidental, or consequential, resulting from the use or performance of the product.

Some products and sizes may be discontinued when stock is depleted or may require a minimum quantity for ordering.

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This brochure is intended as a product offering. It is not a user or technical manual. Information in this brochure is subject to change without notice. We may modify product design and specification without notice and without any obligation to modify or substitute products previously purchased. All users and distributors of products sold through this brochure are strongly encouraged to contact Dixon with questions on use, compatibilities, coupling procedures, and life of product. Our full-time engineering and test staff are always available to recommend uses and to assist distributors and users with questions.



Safety



Safety logos, which appear throughout our brochure, are used as a reminder that the user should carefully review for the appropriateness of the product for the media, application, and environment in which it will be used.

NOTE: Because of the health hazards associated with contamination and lead content in drinking water systems, Dixon couplings, unless otherwise specifically approved, are not recommended for potable water service and should not be used in applications where drinking water will contact the wetted surfaces of the coupling.

All Dixon products are shipped in cartons with the following warning:

"WARNING: This product contains lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm."

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