

Loading Arms

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Loading Arm Introduction

A loading arm is a dynamic system allowing for the transfer of media such as liquids, liquified 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.

Dixon's Counterbalance Options

	Counterweight	ESB1 Torsion Spring Counterbalance	ESB2 Torsion Spring Counterbalance
	· LIXON ·		
Description	 A classic and reliable means of supporting the weight of a loading arm Utilizes a lever-and-fulcrum system with heavy metal weights that counteract the weight of the loading arm Stores fully extended in the horizontal position 	 A helical torsion spring inside a metal housing mounted on a loading arm base swivel When a load pushes the spring downward, the spring exerts an upward balancing force to support the loading arm Can be stored in various positions based on arm configuration and space requirements 	 A heavy-duty helical torsion spring inside a metal housing mounted on a loading arm base swivel Designed to support larger, heavier loading arms Utilizes the same balancing method and offers the same storage benefits as the ESB1
Adjustment	 Uses 2 or 4 weights depending on the reach and weight of the loading arm The balancing force can be precisely adjusted for various reach and load applications by sliding the weights in and out along a rail 	 The balancing force can be precis applications by tightening or loose Multiple spring rates are available load applications 	ening the adjustment bolt
Benefits and Applications	Counterweights are ideal for tight spaces, locations loading multiple products, or where arm crossover may be necessary	 Spring balances allow for a variety wide range of applications including and petroleum 	y of arm configurations, as well as a ng bulk chemicals, food & beverage

Counterweight Loading Arms



counterweight base assembly

Applications

- Bottom loading bulk liquids and other loading products
- · Suitable for fuel loading racks and other loading products requiring multiple arms to crossover

Size

• 4" nominal pipe size

Features

- No springs
- Split flange base swivel
- 2 or 4 adjustable counterweights
- · Easy adjustment, operation, and maintenance

Materials

- · Carbon steel schedule 40 pipe construction
- · 321 stainless steel flex joint with 304 stainless steel braid
- · FKM or nitrile rubber seals

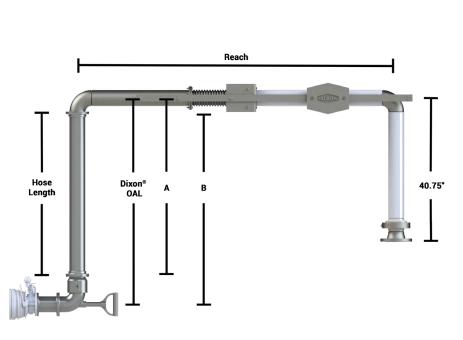
Specifications

- · Composite or stainless steel braided drop hose
- Style 30 loading swivel
- D-handle or ball handle on loading swivel
- TTMA extension or color coded TTMA extension
- Safety breakaway
- Sight glass
- Wet-R-Dri[™] valve
- 5500-series API coupler

Counterweights	Reach Dimension	Part # Nitrile Rubber Seals FKM Seals	
	Reach Dimension		
2	78"	CW2-LA4-078-0	CW2-LA4-078-1
2	90"	CW2-LA4-090-0	CW2-LA4-090-1
2	102″	CW2-LA4-102-0	CW2-LA4-102-1
2	114"	CW2-LA4-114-0	CW2-LA4-114-1
4	78"	CW4-LA4-078-0	CW4-LA4-078-1
4	90"	CW4-LA4-090-0	CW4-LA4-090-1
4	102″	CW4-LA4-102-0	CW4-LA4-102-1

NOTE: The counterweight base assemblies shown above do not contain the drop leg or the bottom unit. 114" reach is only available with 2 weights.





Shown with available options including: composite hose, ball handle, Wet-R-Dri valve, color coded TTMA extension, sight flow indicator, and 5500-series API coupler

Hose Length	Dixon	Α	В		Reach / Part #		
	OAL		D	78"	90"	102"	114"
76"	89"	80"	84"	WV4078EV076M1ED1	WV4090EV076M1ED1	WV20A2EV076M1ED ²	WV20B4EV076M1ED ²
80"	93″	84″	88"	WV4078EV080M1ED1	WV4090EV080M1ED1	WV20A2EV080M1ED ²	WV20B4EV080M1ED ²
92"	105"	96"	100"	-	WV4090EV092M1ED1	WV20A2EV092M1ED ²	WV20B4EV092M1ED ²
96"	109"	100"	104"	-	WV4090EV096M1ED1	WV20A2EV096M1ED ²	WV20B4EV096M1ED ²
108"	121″	112″	116″	-	WV4090EV0A8M1ED1	WV40A2EV0A8M1ED1	WV20B4EV0A8M1ED ²
112"	125"	116"	120″	-	WV4090EV0B2M1ED1	WV40A2EV0B2M1ED1	WV20B4EV0B2M1ED ²
124"	137"	128"	132″	-	WV4090EV0C4M1ED1	WV40A2EV0C4M1ED1	WV20B4EV0C4M1ED ²
128″	141″	132"	136"	-	WV4090EV0C8M1ED1	WV40A2EV0C8M1ED1	WV20B4EV0C8M1ED ²

¹ 4 weights

² 2 weights

NOTE: Part numbers listed above include FKM seals, stainless steel braided metal hose, Style 30 with D-handle, TTMA extension, and 5500-series API coupler. Other hose lengths are available upon request.

Counterweight Reference Sheet

The Right Connection®

A-Frame Loading Arm with Rigid Drop Pipe



Sizes

• 3" and 4"

Features

- · Torsion spring counterbalance offered in left or right hand
- Base swivels offered: carbon steel V-ring, carbon steel split flange, or 316 stainless steel split flange
- Style 50 loading swivel
- Available accessories include safety breakaway, Wet-R-Dri[™] valve, ball handle (see pages 20-29)

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

Specifications

- Standard configurations below include carbon steel base swivels, ESB1 torsion spring counterbalance, TTMA extension, 5500-series API, and D-handle
- · Other options available upon request

Size	Description	Part #
3"	60" x 60" aluminum legs, V-ring base swivel, FKM seals, API	AV3A46JAK48H6ED
3	60" x 60" aluminum legs, split flange base swivel, FKM seals, API	AV3G46JAK48H6ED
	60" x 60" aluminum legs, V-ring base swivel, FKM seals, API	BV4A44JAU46H6ED
A "	60" x 60" aluminum legs, split flange base swivel, FKM seals, API	BV4G44JAU46H6ED*
4"	60" x 72" aluminum legs, V-ring base swivel, FKM seals, API	BV4A44JAU58H6ED
	60" x 72" aluminum legs, split flange base swivel, FKM seals, API	BV4G44JAU58H6ED



A-Frame Loading Arm with Drop Hose



Sizes

• 3" and 4"

Features

- · Torsion spring counterbalance offered in left or right hand
- · Base swivels offered: carbon steel V-ring, carbon steel split flange, or 316 stainless steel split flange
- Style 30 loading swivel; style 50 available upon request
- Available accessories include safety breakaway, Wet-R-Dri[™] valve, ball handle (see pages 20-29)

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 hose available in composite and stainless steel metal

Specifications

- Standard configurations below include carbon steel base swivels, ESB1 torsion spring counterbalance, TTMA extension, 5500-series API, and D-handle
- Other options available upon request

Size	Description	Part #
	60" aluminum leg A x 72" metal drop hose, V-ring base swivel, FKM seals, API	AV3A46JAK59M1ED
3"	60" aluminum leg A x 72" metal drop hose, split flange base swivel, FKM seals, API	AV3A46JAK59M1ED
3	60" aluminum leg A x 72" composite drop hose, V-ring base swivel, FKM seals, API	AV3G46JAK59C1ED
	60" aluminum leg A x 72" composite drop hose, split flange base swivel, FKM seals, API	AV3G46JAK59C1ED
	60" aluminum leg A x 60" metal drop hose, V-ring base swivel, FKM seals, API	BV4A44JAU46M1ED
	60" aluminum leg A x 60" metal drop hose, split flange base swivel, FKM seals, API	BV4G44JAU46M1ED
	60" aluminum leg A x 60" composite drop hose, V-ring base swivel, FKM seals, API	BV4A44JAU46C1ED
4"	60" aluminum leg A x 60" composite drop hose, split flange base swivel, FKM seals, API	BV4G44JAU46C1ED
4	60" aluminum leg A x 72" metal drop hose, V-ring base swivel, FKM seals, API	BV4A44JAU58M1ED
	60" aluminum leg A x 72" metal drop hose, split flange base swivel, FKM seals, API	BV4G44JAU58M1ED*
	60" aluminum leg A x 72" composite drop hose, V-ring base swivel, FKM seals, API	BV4A44JAU58C1ED
	60" aluminum leg A x 72" composite drop hose, split flange base swivel, FKM seals, API	BV4G44JAU58C1ED

Horizontal Hose Loader



Sizes

• 3" and 4"

Features

- Torsion spring counterbalance offered in left or right hand
- Base swivels offered: carbon steel V-ring, carbon steel split flange, or 316 stainless steel split flange
- · Style 30 loading swivel; style 50 available upon request
- Available accessories include safety breakaway, Wet-R-Dri[™] valve, ball handle (see pages 20-29)

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 hose available in composite hose and stainless steel metal hose

Specifications

- Standard configurations below include carbon steel base swivels, ESB1 torsion spring counterbalance, TTMA extension, 5500-series API, and D-handle
- Other options available upon request

Size	Description	Part #
	52" aluminum leg A x 72" metal drop hose, V-ring base swivel, FKM seals, API	AV3A43MV061M1ED
3"	52" aluminum leg A x 72" metal drop hose, split flange base swivel, FKM seals, API	AV3G43MV061M1ED
3	52" aluminum leg A x 72" composite drop hose, V-ring base swivel, FKM seals, API	AV3A43MV061C1ED
	52" aluminum leg A x 72" composite drop hose, split flange base swivel, FKM seals, API	AV3G43MV061C1ED
4"	52" aluminum leg A x 72" metal drop hose, V-ring base swivel, FKM seals, API	BV4A42MV059M1ED
	52" aluminum leg A x 72" metal drop hose, split flange base swivel, FKM seals, API	BV4G42MV059M1ED*
	52" aluminum leg A x 72" composite drop hose, V-ring base swivel, FKM seals, API	BV4A42MV059C1ED
	52" aluminum leg A x 72" composite drop hose, split flange base swivel, FKM seals, API	BV4G42MV059C1ED



Fixed Reach Loading Arm



Sizes

• 2", 3", 4", and 6"

Features

- · Torsion spring counterbalance offered in left or right hand
- Base swivels offered: carbon steel V-ring, carbon steel split flange, or 316 stainless steel split flange
- Available accessories include tee deflector, diffuser, top loading valve with or without remote handle kit, various handles, locking mechanism (see pages 20-29)

Materials

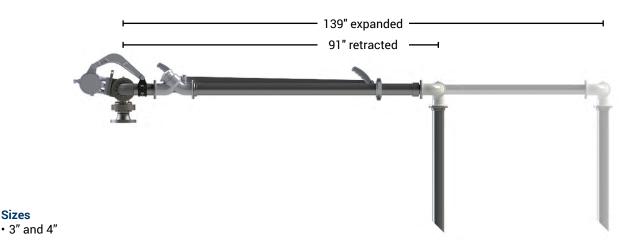
- · Pipe leg materials offered: aluminum, carbon steel, and 316 stainless steel
- · Available seals include: nitrile rubber, FKM, low temperature FKM, PTFE, EPDM, and food-grade nitrile

Specifications

- · Standard configurations below include ESB1 torsion spring counterbalance
- · Other options available upon request

Size	Description	Part #
2"	60" x 48" 316 stainless steel legs, 316 stainless steel split flange base swivel, 45° cut, PTFE seals	AP2D48QUA45QC00
3"	120" x 48" carbon steel legs, carbon steel split flange base and apex swivels LA handle, bucket hook, 45° cut, FKM seals	CV3GA8AFK45ACJ0
4"	120" x 48" aluminum legs, carbon steel split flange base swivel, top loading valve, LA handle, bucket hook, 45° cut, FKM seals	CV4G90JAU42HCJY*

Telescoping Loading Arm





Sizes

Features

- · Torsion spring counterbalance offered in left or right hand
- · Base swivels offered: carbon steel V-ring or carbon steel split flange
- · Available accessories include tee deflector, top loading valve with or without remote handle kit, various handles (see pages 20-29)

Materials

- · Pipe leg materials offered: aluminum
- · Available swivel seals include: nitrile rubber and FKM

Specifications

- Standard configurations below include carbon steel split flange base swivel, ESB1 torsion spring counterbalance, 45° cut end connection
- · Other options available upon request

Size	Description	Part #
	telescoping x 42" overall length, FKM seals and top loading valve	AV3GB49AK37HC0Y
3"	telescoping x 42" overall length, FKM seals, top loading valve and remote handle	BV3GB49AK37HC0N
3	telescoping x 48" overall length, FKM seals and top loading valve	BV3GB49AK43HC0Y
	telescoping x 48" overall length, FKM seals, top loading valve and remote handle	BV3GB49AK43HC0N*

NOTE: Telescoping loading arms are for open discharge only.



Telescoping Arm Replacement Parts

Size	Description	Part #
3"	3" aluminum telescoping leg, 66" retracted and 114" extended	3SAL0-TFXTF-114
3	3" nitrile rubber telescoping leg seal replacement kit	3RKT



Scissor Style Loading Arm



Sizes

• 2", 3", and 4"

Features

- Torsion spring counterbalance offered in left or right hand
- · Base swivels offered: carbon steel V-ring, carbon steel split flange, or 316 stainless steel split flange
- Available accessories include tee deflector, diffuser, top loading valve with or without remote handle kit, various handles, locking mechanism (see pages 20-29)

Materials

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

Specifications

- Standard configurations below include carbon steel split flange base swivel, aluminum legs, top load valve, remote handle kit, and FKM seals
- · Other options available upon request

Size	Description	Part #
3"	84" x 48" drop leg with 24" scissor leg, 45° cut end, top loading valve, remote handle kit	AVBG59JAK43HC0N
3	108" x 48" drop leg with 36" scissor leg, 45° cut end, top loading valve, remote handle kit	BVCG83JAK43HC0N
A "	84" x 48" drop leg with 24" scissor leg, 45° cut end, top loading valve, remote handle kit	CVFG55JAU42HC0N*
4"	108" x 48" drop leg with 36" scissor leg, 45° cut, heavy CB, top loading valve, remote handle kit	PVGG79JAU42HC0N

Unsupported Boom Loading Arm



Sizes

• 2", 3", 4", and 6"

Features

- Torsion spring counterbalance offered in left or right hand
- Base swivels offered: carbon steel V-ring, carbon steel split flange, or 316 stainless steel split flange
- Available accessories include tee deflector, diffuser, top loading valve with or without remote handle kit, various handles, and locking mechanism (see pages 20-29)

Materials

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

Specifications

- Standard configurations below include carbon steel split flange base swivel and ESB1 torsion spring
- · Other options available upon request

Size	Description	Part #
3"	aluminum 78" x 48" drop leg w/ 45° cut, 48" carbon steel boom leg, FKM seals	HVDU64JAK43HC00
3	carbon steel 90" x 60" drop leg w/ 45° cut, 60" carbon steel boom leg, FKM seals	JVEU78AFK57AC00
4"	aluminum 78" x 48" drop leg w/ 45° cut, 48" carbon steel boom leg, FKM seals	HVHU62JAU43HC00*
4	carbon steel 90" x 60" drop leg w/ 45° cut, 60" carbon steel boom leg, FKM seals	KVJU75AFU56AC00
6"	carbon steel 78" x 48" drop leg w/ 45° cut, 48" carbon steel boom leg, FKM seals, ESB2 counterbalance	Q02660AC642AC00



Supported Boom Loading Arm



Sizes

• 2", 3", 4", and 6"

Features

- Torsion spring counterbalance offered in left or right hand
- · Base swivels offered: carbon steel V-ring, carbon steel split flange, or 316 stainless steel split flange
- Available accessories include tee deflector, diffuser, top loading valve with or without remote handle kit, various handles, and locking mechanism (see pages 20-29)
- · Includes triangulated bracing with pillow block bearing to support longer, heavier arms

Materials

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

Specifications

- Standard configurations below include split flange base swivel and ESB1 torsion spring counterbalance
- Other options available upon request

Size	Description	Part #
2"	stainless steel base swivel, stainless steel 60" x 48" drop leg w/ 45° cut, 49" boom leg, PTFE seals	H02148QUA45QC00
3"	carbon steel base swivel, aluminum 78" x 48" drop leg w/ 45° cut, carbon steel 69" boom leg, FKM seals	H02564JAK43HC00
4"	carbon steel base swivel, aluminum 78" x 48" drop leg w/ 45° cut, carbon steel 69" boom leg, FKM seals	H01362JAU42HC00*

Section 1: Customer Information Phone: Distributor name: Contact person: Email: Distributor city, state: Customer code: Phone: End user name: Contact person: Email: Section 2: Configuration(s) Telescoping* (*Leg A only available in one standard length) A-frame Fixed Reach (top load) a. Leg A Supported boom Unsupported boom Scissor Leg A n Leg b. d. c. e. Other style/configurations: Upfeed Left-hand Top load Downfeed Right-hand Bottom load

Custom options are available. Call Dixon Group Canada Limited at 877.963.4966 or email isales@dixonvalve.ca

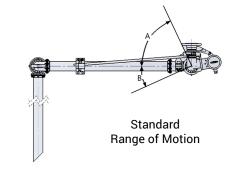
Loading Arms Order Guide

Section 3: Component Measurements and Materials					
(Measure from centerline of swivel to centerline of swivel. Round to the nearest inch, i.e. 48", 60", etc.)					
Leg A Length: Material: carbon steel aluminum stainless steel					
Leg B Length: Material: carbon steel composite hose	aluminum stainless steel				
Boom/Scissor Leg Length: Material: carbon steel	stainless steel aluminum (scissor only)				
Section 4: Load Arm Information					
a. Quantity:					
b. Pipe size: 2" 3" 4"	other:				
c. Base swivel: split flange style v-ring style					
d. Riser stand pipe connection: Class 150 ANSI flange Class 300 ANSI flange other.					
e. Type of media: asphalt fuel other.					
f. Seals (Dixon can recommend based on media): Nitrile rubber PTFE FKM-A low temperature FKM EPDM other.					
g. Environment conditions: temperature range°F to°Foperating PSI :					
h. End connections (check all that apply): i. Add-ons (check all that apply):					
45° pipe cut cam & groove coupler top loading valve sight glass					
API coupler w/ flange extension cam & groove adapter top loading valve w/ remote handle kit D-handle					
tee-deflector dry disconnect butterfly (Wet-R-Dri™) valves ball handle					
male NPT TTMA flange locking mechanism bucket hook					
other.	loading arm handle safety breakaway				
	other.				

Section 5: Site Limitations

Providing the following information will help ensure that the loading arm performs as expected when in service.

A: 65 degrees B: 24 degrees



a. Ceiling or roof height from riser pipe connection distance:

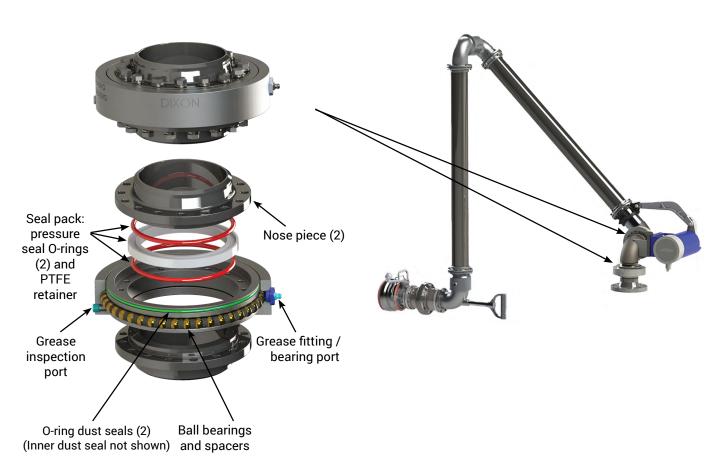
b. Additional items being added by the customer (vapor hoses, drip buckets, hold-down chains, etc.) and estimated weight (pounds):

Sketches/Notes:

Custom options are available. Call Dixon Group Canada Limited at 877.963.4966 or email isales@dixonvalve.ca

The Right Connection®

Split Flange Swivels



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
- · Wide-set bearing race 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, or aluminum nose pieces
- · Seals: FKM-A, 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); other temperature ranges can be met upon request, depending on seal material

Available options

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

Swivels Joints

Applications

 Commonly used in aluminum loading/unloading arm applications

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 malleable iron

Bill of Materials

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

V-Ring Swivel Joints

O-Ring Swivel Joints

Applications

- 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.

Sizes

• 2"-12"

Features

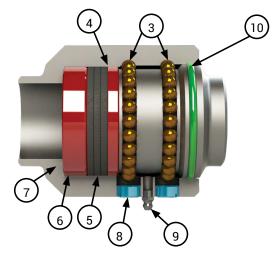
- Spring-loaded triple V-ring sealing system ensures a leak-proof seal at high or low pressure and extends seal life
- Swivels are shipped standard with the following:
- Nitrile rubber pressure seals and dust seals
- Carbon steel ball bearings
- PTFE retainers in V-ring swivels
- Available working pressure ratings up to 1,000 PSI
- End connections and materials offered may vary based on size, contact Dixon[®] for details

Materials

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

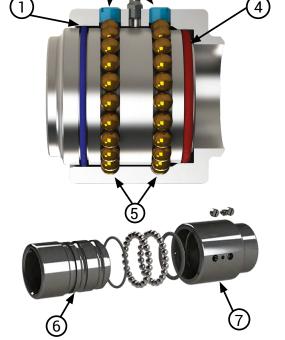
Bill of Materials

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





iple lip seal known for its



3



Swivel Joints

Base Swivels with Counterbalance

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

upfeed

left-hand (UFLH)

downfeed

left-hand (DFLH)*

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

Orientation	Seals	Counterbalance Spring	3" Part #	4" Part #
		Α	AB3G00000000000	AB4G00000000000
	Nitrile rubber	В	BB3G00000000000	BB4G00000000000
UFRH		С	CB3G00000000000	CB4G00000000000
UFNA		Α	AV3G0000000000	AV4G00000000000
	FKM	В	BV3G0000000000	BV4G00000000000
		С	CV3G0000000000	CV4G000000000000000000000000000000000000
		E	EB3G0000000000	EB4G00000000000
	Nitrile rubber	F	FB3G0000000000	FB4G00000000000
UFLH		G	GB3G00000000000	GB4G00000000000
UFLFI	FKM	E	EV3G0000000000	EV4G00000000000
		F	FV3G0000000000	FV4G00000000000
		G	GV3G0000000000	GV4G00000000000



upfeed right-hand (UFRH)



downfeed right-hand (DFRH)*

*Not listed in chart above, contact Dixon® for details



horizontal upfeed right-hand (HUFRH)*



horizontal downfeed right-hand (HDFRH)*



left hand style

right hand style



horizontal upfeed left-hand (HUFLH)*



horizontal downfeed left-hand (HDFLH)*

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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



style 30, short radius

Description	Handle	Seal	3" Part #	4" Part #
		Nitrile rubber	320TFXTFAL00000	420TFXTFAL00000
style 20	no handle	FKM	320TFXTFAL11000	420TFXTFAL11000
		Nitrile rubber	33HTFXTFAL00000	43HTFXTFAL00000
	D-handle	FKM	33HTFXTFAL11000	43HTFXTFAL11000
style 30		Nitrile rubber	33BTFXTFAL00000	43BTFXTFAL00000
short radius	ball handle	FKM	33BTFXTFAL11000	43BTFXTFAL11000
		Nitrile rubber	330TFXTFAL00000	430TFXTFAL00000
	no handle	FKM	330TFXTFAL11000	430TFXTFAL11000
	D-handle	Nitrile rubber		43HTFTFLAL00000
	D-nandle	FKM		43HTFTFLAL11000
style 30	ball handle	Nitrile rubber		43BTFTFLAL00000
long radius	ball nanule	FKM		43BTFTFLAL11000
	no handle	Nitrile rubber		430TFTFLAL00000
		FKM		430TFTFLAL11000
	D-handle	Nitrile rubber	34HTFXTFAL00000	44HTFXTFAL00000
	D-nanule	FKM	34HTFXTFAL11000	44HTFXTFAL11000
style 40	ball handle	Nitrile rubber	34BTFXTFAL00000	44BTFXTFAL00000
Style 40	Dall Hallule	FKM	34BTFXTFAL11000	44BTFXTFAL11000
	no handle	Nitrile rubber	340TFXTFAL00000	440TFXTFAL00000
	no nandle	FKM	340TFXTFAL11000	440TFXTFAL11000
	D-handle	Nitrile rubber	35HTFXTFAL00000	45HTFXTFAL00000
	D-manule	FKM	35HTFXTFAL11000	45HTFXTFAL11000
style 50	ball handle	Nitrile rubber	35BTFXTFAL00000	45BTFXTFAL00000
Style DU		FKM	35BTFXTFAL11000	45BTFXTFAL11000
	no handle	Nitrile rubber	350TFXTFAL00000	450TFXTFAL00000
	no nandle	FKM	350TFXTFAL11000	450TFXTFAL11000
	I. I			



style 30, long radius



style 40



style 50

Loading Arm Swivel Replacement Parts

Description	Part #
4" schedule 80 aluminum nipple	ATN100X7
ball-style handle	100BHAN-AL
D-Style heavy-duty shovel handle	100DHAN-AL
Nitrile rubber seal kit	4RKOBU
FKM-A seal kit	4RKOVIVI



Loading Arms Brochure

Loading Arm Legs/Spools and Hoses

Sizes

• 1-1/2", 2", 3", 4", and 6"

Features

- Available connections include: TTMA flange, 150# flange, 300# flange, MNPT, FNPT, and ٠ weld end
- Additional options include: ports, jump sizes, handle, and bucket hooks

Materials

- Pipe: carbon steel, 316 stainless steel, and aluminum
- · Hose: stainless steel metal and composite



ATN100X7

Swivel Handles

Feature

· Threads into the elbow of a swivel

Material

Aluminum

Description	Part #
ball handle for loading arm swivels	100BHAN-AL
D-handle for loading arm swivels	100DHAN-AL
1" Schedule 80 nipple 7" over all length	ATN100X7

Top Loading Diffusers and T-Deflectors

Application

. Installed on drop leg of a top load loading arm to distribute media evenly to help reduce splash

T-deflectors distribute media to the sides of the tank, railcar, or tote



diffuser

Materials

Features

Aluminum and stainless steel

Female NPT threaded

Diffusers distribute media evenly 360°



T-deflector

Size	Description	Part #
2"	aluminum T-deflector	200-TLTD-AL
Ζ	stainless steel T-deflector	200-TLTD-SS
	aluminum 360° diffuser	TLD-300S
3"	aluminum T-deflector	300-TLTD-AL
	stainless steel T-deflector	300-TLTD-SS
	aluminum 360° diffuser	TLD-400S
4"	aluminum T-deflector	400-TLTD-AL
	stainless steel T-deflector	400-TLTD-SS





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

Description	Part #
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.

Locking Mechanism / Lock Bar Assembly

Application

- Used in top loading applications to help reduce sudden arm movement caused by pressure changes
- Contact Dixon[®] for more details

Material

Carbon steel

Loading Arm Support Braces

Application

· Support the load on the arm for applications with a long reach or high moment load

Features

- Pillow block bearing support with turnbuckle for easy adjusting
- Clamp included for easy loading arm attachment
- Contact Dixon® for more details

Material

Carbon steel

Counterbalances

Features

- · Includes pivot arm (shown) and spring to help prevent possible pinch point
- Easy-adjust tension bolt, carbon steel housing

Description	Part #
light-duty white torsion spring, right hand	ESB1/A
medium-duty yellow torsion spring, right hand	ESB1/B
heavy-duty red torsion spring, right hand	ESB1/C
light-duty black torsion spring, left hand	ESB1/E
medium-duty grey torsion spring, left hand	ESB1/F
heavy-duty orange torsion spring, left hand	ESB1/G

Counterbalance Connecting Arm Clamps

Feature
Clamps link counterbalance connecting arm to the primary leg

Materials

- 2" clamp: stainless steel
- 3" and 4" clamp: iron

Size	Description	Part #
2"	counterbalance connecting arm clamp for 2" pipe	ESB-CLAMP-2
3"	counterbalance connecting arm clamp for 3" pipe	ESB-CLAMP-3
4"	counterbalance connecting arm clamp for 4" pipe	ESB-CLAMP-4



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ESB1/A



ESB-CLAMP-3

Loading Arms Brochure





VB-050-BSP

Top Loading Valves and Accessories

Applications

- · Manual or remote controlled valve mounts before the loading arm horizontal leg to control flow
- · Used in top loading fuels and other low viscosity media

Features

- Adjustable closure rate
- Manually operated "Deadman" style with spring-loaded handle
 Optional remote-handle available

Materials

- Valve: aluminum
- Vacuum breaker body: brass
- Vacuum breaker housing: aluminum
- Seals: FKM

Size	Description	Part #
2"	top loading valve with FNPT and vacuum breaker	TLV-200FTVBVIAL
2"	top loading valve with TTMA flanges and vacuum breaker	TLV-200TFVBVIAL
3"	top loading valve with TTMA flanges and vacuum breaker	TLV-300TFVBVIAL
4"	top loading valve with TTMA flanges and vacuum breaker	TLV-400TFVBVIAL
2"	valve remote, handle, and bracket kit with bar	TLRVK-200X58AL
3"	valve remote, handle, and bracket kit with bar	TLRVK-300X58AL
4"	valve remote, handle, and bracket kit with bar	TLRVK-400X58AL
2"	valve remote, handle, and bracket kit	AT1350-2
3"	valve remote, handle, and bracket kit	AT1350-3
4"	valve remote, handle, and bracket kit	AT1350-4
1/2"	vacuum breaker, BSP threads	VB-050-BSP1
1/2"	vacuum breaker, NPT threads	VB-050-NPT

¹ Replacement vacuum breaker for top loading valve.

TTMA-Series Flange Adapters

Features

- · Simply and easily converts threaded components to a standard TTMA flange configuration
- · Solid cast lightweight aluminum design is more durable than welded fabrications
- · Design improves flow through adapter
- · Compact size reduces the overall space needed to install

TTMA Flange x Female NPT Adapters

TTMA Flange	Female NPT	Overall Length	Aluminum Part #
4"	3"	2-1/2"	TTF4AL-3FT
4	4"	2-1/2"	TTF4AL-4FT

TTMA Slip-on Socket Weld Flange





Loading Arms Brochure



TTMA Flange Gaskets

Size	0.D.	I.D.	Thick.	Material	Part #
	5-5/8"	3-1/2"	1/8"	Cork / Nitrile rubber	300GTTFCB
	5-15/16"	3-1/4"	5/32"	PTFE envelope with Klinger filler	300GTTFTK
3"	5-5/8"	3-1/2"	1/8"	Klingersil [®] C-4300	300GTTFK
	5-29/32"	3-1/2"	3/32"	PTFE with fiber core	40321TF
	5-5/8"	3-5/8"	1/8"	Baylast	300GTTFBL
	6-5/8"	4-9/16"	1/8"	Cork / Nitrile rubber	400GTTFCB
	6-15/16"	4-1/4"	5/32"	PTFE envelope with Klinger filler	400GTTFTK
4"	6-5/8"	4-9/16"	1/8"	Klingersil C-4401	400GTTFK
	6-7/8"	4-9/16"	3/32"	PTFE with fiber core	40322TF
	6-5/8"	4-5/8"	1/8"	Baylast	400GTTFBL



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

Betts Wet-R-Dri[™] Valves

Applications

· Designed for handling liquid, gaseous, or dry products

Features

- · Positive stop in the open and closed position
- · Detent spring and ball assist in holding the disc in the open and closed position

Size	Description	Part #
3"	TTMA Wet-R-Dri valve with manually-operated detent handle	WD301ALVB
3"	TTMA Wet-R-Dri valve with manually-operated metering handle	WD304ALVB
4"	TTMA Wet-R-Dri valve with manually -operated detent handle	WD401ALVB
4"	TTMA Wet-R-Dri valve with manually-operated metering handle	WD404ALVB



WD401ALVB

TTMA Flanged Sight Flow Indicators

Features

- TT3ASG-ETH and TT4ASG-ETH for use with ethanol
- 5201-SFI for use with gasoline and diesel, up to E100 and B100 biofuels
- · Tank truck flange gaskets and dimensional information at dixonvalve.com

Material

- Acrylic
- Baylast seals (in 5201-SFI only)

Specifications

- Maximum flange bolt torque is 200 in-lbs.
- Due to the proprietary blending of petroleum products, Dixon recommends that the thermoplastic tubing and the gaskets be immersion tested in the product to be handled to ensure compatibility
- Not compatible with crude oil

Size	Nominal Width	Part #
3"	1-3/4"	TT3ASG-ETH
4"	1-3/4"	TT4ASG-ETH
4"	3-1/4"	5201-SFI



TT4ASG-ETH

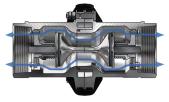


5201-SFI

Safety Breakaways

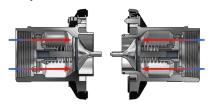
How it Works

Safety break-away couplings have three external breaking bolts. In the case of axial tension, all of the bolts take up the force corresponding to the break force on the hose with a safety margin. Non-axial forces concentrate the tension force more strongly on one bolt, so that the safety break-away coupling reacts in a natural way to the reduction of the hose break forces.



BEFORE emergency disconnect

The safety break-away valve consists of two halves, each with a valve that has a O-ring seal.



AFTER emergency disconnect

When the safety break-away couplings separate, the valves are able to close. The two valves close rapidly, minimizing exposure to personnel and the environment.

TTMA Flanged Breakaway Coupling

Application

Installs between an API coupler and loading arm



- Minimizes spillage and damage associated with driveaway and pull-away incidents
- Passive security against situations where a hose or loading arm could be subjected to inadvertent excessive loads
- Coupling automatically disconnects and closes the valves under excessive loads
- High flow rate/low pressure drop
- FKM/FPM is standard seal

Specification

• 150 PSI at ambient temperature 70°F (21°C)

Size	Material	Part #
4"	aluminum	SBC400ALTTMA
4"	aluminum - compact version	SBC400ALTTMACP

5900 - Series Safety Breakaway Coupling

Application

· Designed to protect loading arms and hoses used in petroleum loading applications

Features

- · Designed to shear and separate protecting the loading arm or hose and preventing spillage of liquid product
- Sheared bolts are replaceable allowing the fitting to be reassembled and put back in service
- Poppet design holds open permitting low pressure drop flow through the coupling, should the coupling shear as a result of a drive away, the internal poppets will snap shut preventing spillage and loss of product
- · Compact, fits behind any API loading coupler
- · PTFE seal option is typically used in fuel applications to resist long term exposure to fuel additives
- · Break force varies with line pressure, refer to the Maintenance & Operating Instructions for 5900-Series Breakaway Couplings

Materials

- · Seal material options include nitrile rubber, FKM-GFLT, and PTFE
- Aluminum A356T6

Size	Seal Material	Part #
	nitrile rubber	5900ALBN400A
4"	FKM encapsulated PTFE	5900ALTV400A
	FKM-GFLT	5900ALVG400A



5900ALBN400A





TTMA Flange Extensions

Applications

- · Used to connect an API coupler to a loading arm
- TTMA flange extension provides additional clearance near swivels, elbows, and valves
- Extension with groove provides a specified parting point to prevent excessive damage to the loading arm

Features

- Adds a 6" space to allow for clearance between the loading arm and the tank truck
- · Color coded extensions are offered for product identification
- Other colors available upon request. Consult Dixon® for more details

Materials

• Aluminum and powder coated aluminum

Aum			
Size	Description	Part #	
	TTMA flange extension	TETF4AL	Photos Internet
	TTMA flange extension with groove	TETFG4AL	· ·
	TTMA flange extension with 1/2" female NPT port	TETF4ALFP50	TETF4AL-W
	TTMA flange extension with 3/4" female NPT port	TETF4ALFP75	
	TTMA flange extension; color-coded white	TETF4AL-W	
	TTMA flange extension; color-coded blue	TETF4AL-B	
	TTMA flange extension; color-coded green	TETF4AL-G	DIXON TETTAL
	TTMA flange extension; color-coded red	TETF4AL-R	
	TTMA flange extension; color-coded yellow	TETF4AL-Y	TETF4AL-G
4"	TTMA flange extension; color-coded orange	TETF4AL-0	
	TTMA flange extension; color-coded black	TETF4AL-BLK	
	TTMA flange extension; color-coded combination green and yellow	TETF4AL-G/Y	
	TTMA flange extension; color-coded combination blue and white	TETF4AL-B/W	2111-1 TETT 22760
	TTMA flange extension; color-coded combination blue and red	TETF4AL-B/R	TETF4AL-Y
	TTMA flange extension; color-coded combination white and red	TETF4AL-W/R	
	TTMA flange extension; color-coded combination red, white, and blue	TETF4AL-R/W/B	DIN 13 12 SAL

TTMA Flange Extension Reducing Spools

Size	Description	Material	Part #
	TTMA flange extension reducing spool	aluminum	TETF3X4AL
3" x 4"	TTMA flange extension reducing spool	carbon steel	TETF3X4CS
	TTMA flange extension reducing spool	stainless steel	TETF3X4SS



TETF4AL-R/W/B

TETF3X4AL





TETFG4AL

TETF4AL-B

TETF4AL-R

TETF4AL-G/Y

5-YEAR

MECHANICAL

WARRANTY

Normal wear and tear items

(including seals) not covered¹

5500-Series API Couplers

Applications

Combined with API adapters, these couplers are suitable for rail car and tank truck loading or unloading

Features

- Locking five-cam design provides easy alignment and tight connection
- Modular design allows various face seal combinations to be compatible with different alternative fuels, performance levels, and applications
- · Replaceable nose seal can be changed without removing coupler from loading arm
- Fully interlocked collar prevents fitting from opening when disconnected and from being disconnected while opened
- 4" TTMA inlet mounting flange connection
- Ball-end handle for easy and comfortable operation
- No special tools needed for maintenance

Materials

- · Body: 356 T6 aluminum anodized hard-coat
- · Cam: stainless steel
- · Poppet: 356T6 aluminum anodized hard-coat
- Seals: FKM-GFLT standard; Baylast, EPDM, Fluoroelastomer, FKM-B, HiFluor[®]
- · Link, shaft, pin, crank: hardened 17-4PH stainless steel
- Handle: aluminum, stainless steel

Specifications

- Seal operating temperature:
- Baylast: -35°F to 212°F (-37°C to 100°C)
- EPDM: -20°F to 250°F (-28°C to 121°C)
- FKM-B: -10°F to 400°F (-23°C to 204°C)
- FKM-GFLT: -30°F to 400°F (-34°C to 204°C)
- Fluorosilicone: -50°F to 350°F (-45°C to 176°C)
- HiFluor. -15°F to 400°F (-26°C to 204°C)
- Flow rate: 600 GPM at 3 PSI pressure drop; maximum flow rate: 1,000 GPM
- · Fully compliant with API RP1004:2003 specifications
- Maximum allowable working pressure: **150 PSI**
- Surge pressure: 350 PSI

Description	Seal Material	Part #	Complete Repair Kit ¹ Part #	Replaceable Nose Seal Part #
	Baylast	5500BL	5500RK2	5500RK8
	EPDM	5500E	5500RK3	5500RK9
4" API	FFKM	5500K	5500RK6	5500RK12
coupler	FKM-B	5500B	5500RK1	5500RK7
couplei	FKM-GFLT	5500G	5500RK5	5500RK11
	Fluorosilicone	5500F	5500RK4	5500RK10
	HiFluor	5500H	5500RK19	5500RK20

¹ Complete repair kit contains all the seals, pins, and cotter keys to replace all the seals. NOTE: Stainless steel handles and locking handle kit options are available please contact Dixon for a quote.

API Coupler Repair Kits

Description	Part #
small parts kit for 5500 series rack coupler	5500RK21
aluminum replacement handle kit with bolt and nut	5500RK22
stainless steel replacement handle kit with bolt and nut	5500RK23
locking handle kit	5500RK24
aluminum short handle replacement kit with bolt and nut	5500RK25
replacement poppet kit with links, pins, and cotter pin	5500RK26
replacement seal cylinder - no seal	5500RK27
replacement FKM-GFLT bearing kit for 5500	5500RK51

5500-Series



Replaceable nose seal: Replace without removal from the loading arm



5500RK24

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Loading Arms Brochure





Overfill Protection - Rack Monitor



Rack Cord

Application

• Installed on the gantry to control the loading process of petroleum fuels or other hazardous liquid into cargo tanks

Features

- · Automatically switches between 2-wire or 5-wire type sensors
- Compatible with analog 2-wire thermistor type sensors
- Redundant relay outputs prevent single point failures
- Data management via RS485 port
- Wireless bypass key system
- Ground verification
- Reads trailer identification modules

Approvals

- Meets API RP1004 and EN13922 standards
- · Suitable for Class I, Division 1, Group CD and Class I, Zone 1, Group IIB
- Rated to IP66

API-Compatible Systems





- Plug is color-coded (5-wire optic) blue or (2-wire optic/thermistor) green
- Highly visible orange/blue safety jacket to meet trip hazard requirements
- Cord is bonded mechanically and resistant to abrasion and oil
- Cord sets are interchangeable with Scully and Civacon
- All wiring is compatible with standard Scully color codes and wiring number configurations
- The 9-pin conductor is shielded to be compatible with Scully VIP system
- For mating socket, consult Dixon[®]

Materials

- Plug body: reinforced nylon
- Button contacts: 316 stainless steel
- All other hardware: stainless steel

Order Guide

	Order Guide				
Part #	Rack Monitor Description				
FT7000	rack monitor, auto switch between 2-wire / 5-wire sensors, ground verification, and trailer identification modules; API RP 1004 / EN13922				
	Safe-T Connect Junction Box Description				
FT7600	8-pin, 2J, green API plug, and 30' safety orange coiled cable				
FT7600-4	8-pin, 4J, green API plug, and 30' safety orange coiled cable				
FT7600C	10-pin, 4J, green API plug, and 30' safety orange coiled cable				
FT7600P	8-pin, 2J, green API plug, 30' safety orange coiled cable, and Plug-n-Play connector				
FT7600S	8-pin, 2J, green API plug, and 20' safety orange straight cable				
FT7620	6-pin, 3J, blue API plug, and 30' blue coiled cable				
FT7620P	6-pin, 3J, blue API plug, 30' blue coiled cable, and Plug-n-Play connector				
FT7620S	6-pin, 3J, blue API plug, and 20' blue straight cable				
FT7630	10-pin, 4J, black plug per EN13922, and 30' blue shielded coiled cable				
FT7630D	10-pin, 4J, black plug per EN13922, and 30' blue shielded coiled cable with Dixon Bayco® break-away				
	Junction Box Description				
FT7500	single cord junction box				
FT7501	dual cord junction box				
FT7502	junction box with Cole Hersee yellow 13-pin break-away				
FT7503	junction box with D-type pigtail break-away				
	Rack Cord Description				
FT600	8-pin, 2J, API thermistor plug, and 30' safety orange coiled cable				
FT600-4	8-pin, 4J, API thermistor plug, and 30' safety orange coiled cable				
FT600C	10-pin, 4J, API thermistor plug, and 30' safety orange coiled cable				
FT600P	8-pin, 2J, API thermistor plug, and 30' safety orange coiled cable with 13-pin Plug-n-Play				
FT600S	8-pin, 2J, API thermistor plug, and 20' safety orange straight cable				
FT620	6-pin, 3J, API optic plug, and 30' blue coiled cable				
FT620P	6-pin, 3J, API optic plug, 30' blue coiled cable and Plug-n-Play connector				
FT620S	6-pin, 3J, API optic plug, and 20' blue straight cable				
FT630	10-pin, 4J, black plug per EN13922, and 30' blue shielded coiled cable				
FT630D	10-pin, 4J, black plug per EN13922, 30' blue shielded coiled cable, and Dixon Bayco break-away				

FT7502

FT7501

FT600



FT620



FT600P with 13-pin plastic



with J560 aluminum



Features

- · "Floating bridge" poppet design allows optimal flow
- · Machined hose shank ensures easier insertion into hose and better sealing
- Durable and easy-to-couple
- · Big wings ensure contact with air interlock button on tanker, helping prevent drive-offs
- · Change poppet seal without removing the coupler from the hose
- · Secure to hose with traditional band clamps or built-in crimp collar
- · 4" MNPT version allows for either cam and groove or threaded flange option
- · 45° angle version relieves stress common to vapor hoses, swivel version also available

Materials

- Coupler: aluminum
- Seal: nitrile rubber
- · Cam arms: stainless steel

Description	Part #
4" coupler x 4" hose shank	VR4040CS-AL
4" coupler x 3" 45° hose shank	VR4030CS-AL45
4" coupler x 4" 45° hose shank	VR4040CS-AL45
4" coupler x 4" 45° hose shank swivel	VR4040CS-ALS45
4" coupler x 4" MNPT connection	VR4040CS-4MNPT
4" coupler x 4" female NPT	VR4040CS-4FNPT
4" coupler x 3" hose shank	VR4030CS-SH
seal repair kit	VR4040CSRK1
cam arm repair kit	VR4040CSRK2



The Right Connection®





VR4030CS-AL45 and VR4040CS-AL45



VR4040CS-ALS45



VR4040CS-4MNPT (TTF4AL-4FT sold separately)

Vapor Recovery Plates and Splash Guards

Application

- Vapor recovery plates are used to prevent unwanted emissions and to recover vapors that occur when products are being top loaded
- Splash guards are also used in top-loading applications, to reduce unwanted splash of
 products such as asphalt or other media while being loaded

Sizes

· Designed to work with 2", 3", and 4" loading arms

Features

- · Design based on customers' needs and can be highly customized
- · Available features include: threaded NPT ports, viewing ports, and handles
- Available connections include: cam & groove fittings, TTMA flanges, NPT threaded connections

Materials

- · Vapor plate available materials include: aluminum and stainless steel
- · Vapor plate gasket available materials include: nitrile rubber and FKM
- Splash guard available materials include: aluminum



vapor recovery plate



splash guard

Loading Arms
Notes

Limited Warranty

DIXON VALVE & 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) 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.

Limits of Liability

This brochure is intended as a product offering. It is not intended to be a user or technical manual. Information in this brochure is subject to change without notice. All users and distributors of products sold through this brochure should contact Dixon with questions of 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 any questions.



Safety



Safety logos, which appear throughout our catalog, 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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The Right Connection®

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