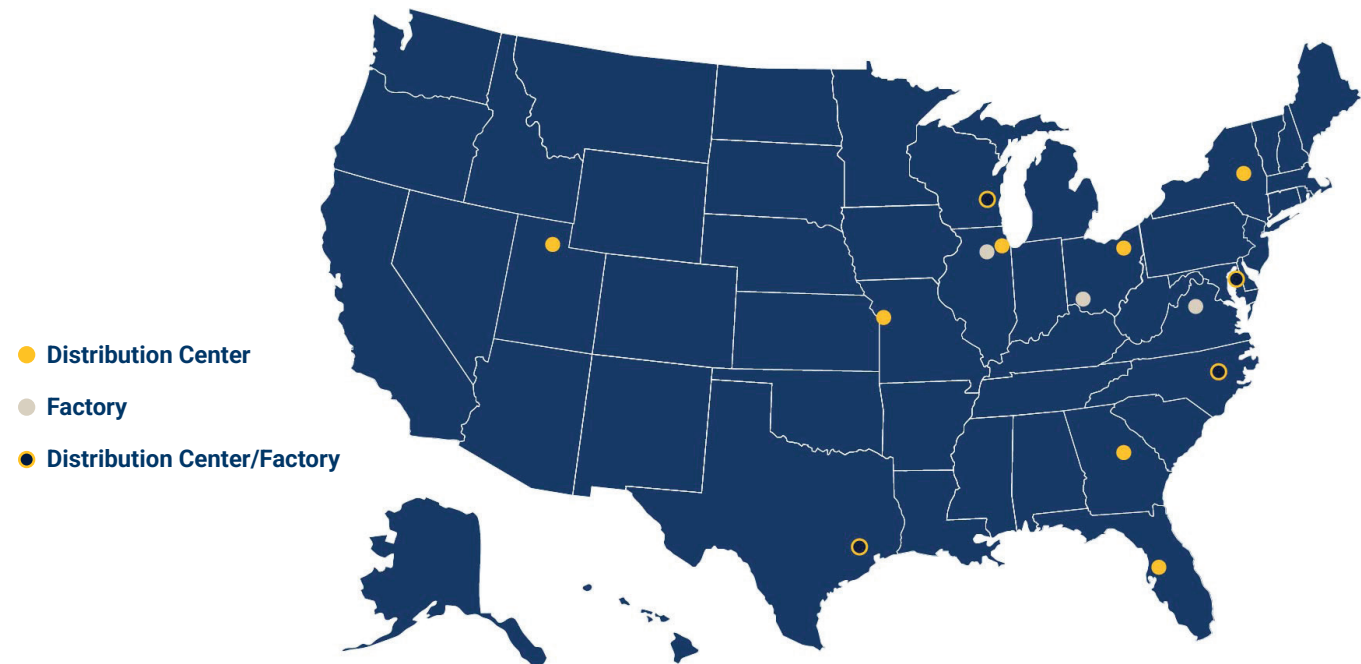




Customer Service
877.963.4966

North American Manufacturing and Warehouse Locations



Factories:

Chestertown, MD • Cincinnati, OH • Dallas, NC • Houston, TX • Pewaukee, WI • Westmont, IL • Winchester, VA

Distribution Centers:

Chestertown, MD • Dallas, NC • Groversville, NY • Houston, TX • Itasca, IL • Kansas City, MO • Peachtree City, GA • Pewaukee, WI • Salt Lake City, UT • Tampa, FL • Twinsburg, OH

Value Proposition



SERVICE

As a trusted global partner, Dixon® provides responsive service with a commitment to quality and customer service that supports our customers before, during, and after the sale.



QUALITY MANUFACTURING

We provide innovative manufacturing that continues to build the Dixon brand recognized by our customers as “The Quality Line”.



PRODUCT OFFERINGS

With a global sourcing network supported by strategically located warehouses, we can help our customers stay connected and competitive – anywhere in the world.

Table of Contents

Locations	2	Pneumatic Accessories	9-17
Value Proposition	2	King safety whipsnocks	9
Dixon® Commitment	3	King safety shackles	9
Safety	3	Nylon safety restraints	10
		Thread tape and paste	10
Engineered Fluid Transfer Couplings	4	Gauges	11-17
CNG-Series gas couplings	4-5		
CNG-Series seal and repair kits	5	Cryogenic	18-29
H-Series Hydraulic Couplings	6-7	LNG couplings	18
ISO-B female threaded couplers	6	Dry disconnect	19
ISO-B female threaded plugs	7	How it works/flow	20
ISO-B male threaded plugs	7	Dixon® MannTek dry disconnects	21
		Mobile fueling	22
Fuel Tanker Products	8	LNG nozzle, vent, breakaway	23
Air interlock valves	8	Breakaway couplings	24
Reelcraft® static discharge reels	8	How it works/flow	25
Static grounding balls	8	Dixon® MannTek safety breakaways	26
		PERC	27-28
		Cable release	29

We Commit

- To ensure that internal and external customer needs are identified and that our products and services meet these needs
- To fully meet and exceed the requirements of the ISO 9001 Quality Program
- To strive for quality in each and every phase of our business
- To exceed competitor's quality
- To provide systems and training for all Dixon employees
- To create an environment that will allow each employee to do it right the first time, and accept the responsibility for quality in each and every task they perform
- That no employee will ever be called on to do anything morally, legally, or ethically wrong

Safety

Dixon's couplings and retention devices are designed to work safely for their intended use. The selection of the proper hose, coupling, and retention device, and the proper application of the coupling to the hose are of utmost importance.

Users must consider the size, temperature, application, media, pressure, and hose and coupling manufacturer's recommendations when selecting the proper hose assembly components. Dixon recommends that all hose assemblies be tested in accordance with the Association for Rubber Products Manufacturers' (ARPM) recommendations and be inspected regularly (before each use) to ensure that they are not damaged and have not become loose. Visit ARPMINC.com for more information.

Where safety devices are integral to the coupling, they must be working and utilized. The use of supplementary safety devices such as safety clips or safety cables is recommended.

If any problem is detected, couplings must be removed from service immediately.

Dixon is available to consult, train, and recommend the proper selection and application of all fittings we sell. We strongly recommend that distributors and end users make use of Dixon's testing and recommendation services. Call 877.963.4966 or click dixonvalve.com to learn more.

CNG-Series Gas Couplings



Applications

- Used to facilitate the large volume transfer of high-pressure compressed natural gas (CNG) for applications such as virtual CNG pipelines, mining, oil exploration, well site development, and remote location natural gas delivery

Size

- 1"

Features

- Meets CNG service requirements
- Improved body and valve design provides a 30% increased flow performance over standard ISO-B designs
- Latch mechanism provides brinelling resistance
- Locking sleeve design prevents accidental disconnection
- FKM seals are standard, providing a temperature range of **-65°F to 400°F (-54°C to 204°C)**
- Coupler has redundant O-ring sealing system with PTFE back-up ring
- Captured valve O-ring for reliability in high-flow conditions
- CNG plugs supplied with combination dust cap/plug
- Non-sparking material
- CRN number 0A24883.2C

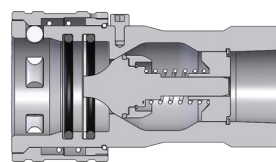
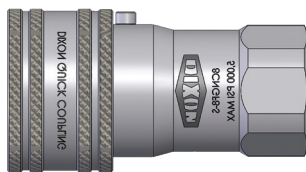
Material

- 303 stainless steel

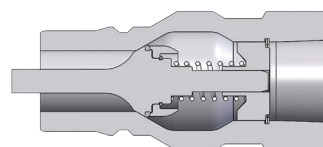
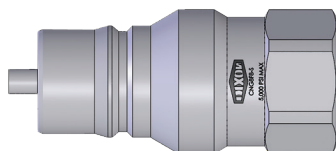
Specifications

- Designed to ISO7241-B Series profile
- **5,000 PSI** maximum working pressure

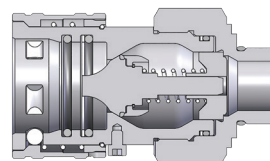
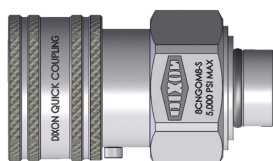
CNG-Series Gas Couplings



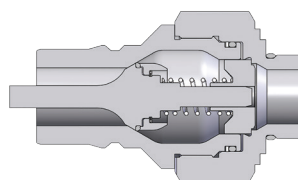
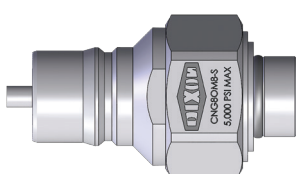
Body Size	CNG-Series Compressed Natural Gas Coupler (Female Threads)							
	Part Detail			Length		Maximum O.D.		Hex inch
	Part #	Threads	Material	inch	mm	inch	mm	
1"	8CNGF8-S	1" – 11-1/2 NPTF	303 SS	4.30	109.22	2.53	64.26	1-7/8"



Body Size	CNG-Series Compressed Natural Gas Plug (Female Threads)							
	Part Detail			Length		Maximum O.D.		Hex inch
	Part #	Threads	Material	inch	mm	inch	mm	
1"	CNG8F8-S	1" – 11-1/2 NPTF	303 SS	4.72	119.88	2.06	52.32	1-7/8"



Body Size	CNG-Series Compressed Natural Gas Coupler (Male Threads)							
	Part Detail			Length		Maximum O.D.		Hex inch
	Part #	Threads	Material	inch	mm	inch	mm	
1"	8CNGOM8-S	1-5/16"-12 ORB	303 SS	4.49	119.4	2.65	67.6	2-3/8"



Body Size	CNG-Series Compressed Natural Gas Plug (Male Threads)							
	Part Detail			Length		Maximum O.D.		Hex inch
	Part #	Threads	Material	inch	mm	inch	mm	
1"	CNG8OM8-S	1-5/16" – 12 ORB	303 SS	4.70	119.38	2.66	67.57	2-3/8"

CNG-Series Seal and Repair Kits

Body Size	Part #	Coupler Material	Seal Material	Repair Kit Contents (For one coupler or plug)
1"	8CNG-SKIT-V2	303 SS	FKM	back-up ring, body O-Rings
	8CNG-SRKIT-V2	303 SS	FKM	socket valve assembly, retaining ring, valve spring, valve guide, and all required O-Rings
	CNG8-SRKIT-V2	303 SS	FKM	socket valve assembly, retaining ring, valve spring, valve guide, and all required O-Rings

NOTE: Contact Dixon for repair kits for original version 1 design.

H-Series Hydraulic Couplings

Features

- Poppet style shut-off valves in both coupler and plug
- Interchangeable with Hansen® HK, Faster® HNV, Stucchi® IRB/IRBO/IRBX, Parker® 60-Series, Snap-tite 72-Series, Eaton®/Aeroquip® FD 45
- Contact Dixon® for pressure ratings and other technical information
- Contact Dixon for additional seal material options

Specification

- Nitrile seals standard providing temperature range of -40°F to 250°F (-40°C to 121°C)

Approval

- Meets dimensional requirements of ISO7241 Series B

ISO-B Female Threaded Couplers



steel

Body Size	Threads	Steel Part #
1/8"	1/8" – 27 NPTF	1HF1
	7/16" – 20 ORB	1HOF2
1/4"	1/4" – 18 NPTF	2HF2
	1/4" – 19 BSPP	2HBF2
	9/16" – 18 ORB	2HOF3
3/8"	3/8" – 18 NPTF	3HF3
	3/8" – 19 BSPP	3HBF3
	3/4" – 16 ORB	3HOF4
1/2"	1/2" – 14 NPTF	4HF4
	1/2" – 14 BSPP	4HBF4
	7/8" – 14 ORB	4HOF5
3/4"	3/4" – 14 NPTF	6HF6
	3/4" – 14 BSPP	6HBF6
	1-1/16" – 12 ORB	6HOF6
1"	1" – 11-1/2 NPTF	8HF8
	1" – 11 BSPP	8HBF8
	1-5/16" – 12 ORB	8HOF8



303 stainless

Body Size	Threads	303 Stainless Steel Part #	316 Stainless Steel Part #
1/8"	1/8" – 27 NPTF	1HF1-S	1HF1-SS
1/4"	1/4" – 18 NPTF	2HF2-S	2HF2-SS
	1/4" – 19 BSPP	2HBF2-S	2HBF2-SS
3/8"	3/8" – 18 NPTF	3HF3-S	3HF3-SS
	3/8" – 19 BSPP	3HBF3-S	3HBF3-SS
1/2"	1/2" – 14 NPTF	4HF4-S	4HF4-SS
	1/2" – 14 BSPP	4HBF4-S	4HBF4-SS
3/4"	3/4" – 14 NPTF	6HF6-S	6HF6-SS
	3/4" – 14 BSPP	6HBF6-S	6HBF6-SS
1"	1" – 11-1/2 NPTF	8HF8-S	8HF8-SS
	1" – 11 BSPP	8HBF8-S	8HBF8-SS

H-Series Hydraulic Couplings

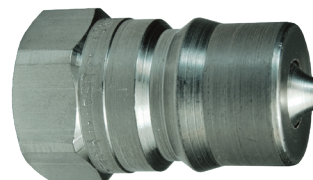
ISO-B Female Threaded Plugs

Body Size	Threads	Steel Part #
1/8"	1/8" – 27 NPTF	H1F1
	7/16" – 20 ORB	H10F2
1/4"	1/4" – 18 NPTF	H2F2
	1/4" – 19 BSPP	H2BF2
	9/16" – 18 ORB	H20F3
3/8"	3/8" – 18 NPTF	H3F3
	3/8" – 19 BSPP	H3BF3
	3/4" – 16 ORB	H30F4
1/2"	1/2" – 14 NPTF	H4F4
	1/2" – 14 BSPP	H4BF4
	7/8" – 14 ORB	H40F5
3/4"	3/4" – 14 NPTF	H6F6
	3/4" – 14 BSPP	H6BF6
	1-1/16" – 12 ORB	H60F6
1"	1" – 11-1/2 NPTF	H8F8
	1" – 11 BSPP	H8BF8
	1-5/16" – 12 ORB	H80F8



steel

Body Size	Threads	303 Stainless Steel Part #	316 Stainless Steel Part #
1/8"	1/8" – 27 NPTF	H1F1-S	H1F1-SS
1/4"	1/4" – 18 NPTF	H2F2-S	H2F2-SS
	1/4" – 19 BSPP	H2BF2-S	H2BF2-SS
3/8"	3/8" – 18 NPTF	H3F3-S	H3F3-SS
	3/8" – 19 BSPP	H3BF3-S	H3BF3-SS
1/2"	1/2" – 14 NPTF	H4F4-S	H4F4-SS
	1/2" – 14 BSPP	H4BF4-S	H4BF4-SS
3/4"	3/4" – 14 NPTF	H6F6-S	H6F6-SS
	3/4" – 14 BSPP	H6BF6-S	H6BF6-SS
1"	1" – 11-1/2 NPTF	H8F8-S	H8F8-SS
	1" – 11 BSPP	H8BF8-S	H8BF8-SS



303 stainless

ISO-B Male Threaded Plugs

Body Size	Threads	Steel Part #
1/4"	1/4" – 18 NPTF	H2M2
1/4"	3/8" – 18 NPTF	H2M3



Body Size	Threads	303 Stainless Steel Part #
1/2"	3/4" – 14 NPTF	H4M6-S

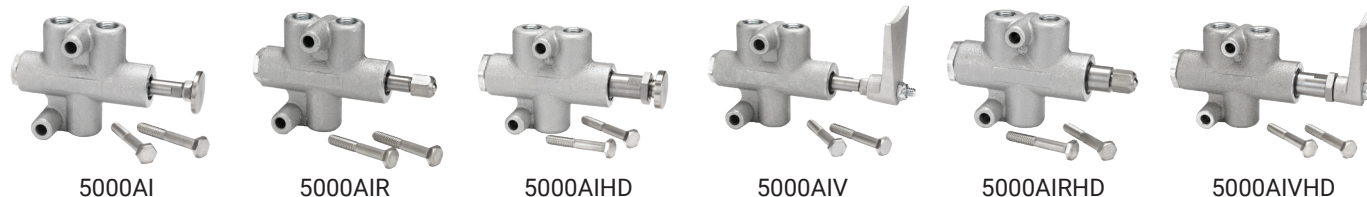


Air Interlock Valves

Specifications

- Temperature range: **-40°F to 158°F (-40°C to 70°C)**
- Maximum working pressure: **150 PSI**

Standard Air Interlock Valves



Part #	Description
5000AI	1" button plunger pneumatic interlock, Baylast™ seals
5000AIST	1-1/2" button plunger pneumatic interlock, Baylast seals
5000AIR	roller ball plunger pneumatic interlock, ideal for use on cabinet doors, Baylast seals
5000AIS	1" button plunger pneumatic/electronic interlock, ideal for connecting to lights or the overfill detection system, Baylast seals
5000AIV	paddle plunger pneumatic interlock, for use on VR4000 vapor valve, Baylast seals
5000AIHD	heavy duty, high flow air ports, same foot print as 5000AI, Baylast seals
5000AIRHD	roller end for various angles, large air ports, Baylast seals
5000AIVHD	heavy duty air interlock with paddle plunger, Baylast seals

Reelcraft® Static Discharge Reels



Application

Used to ground equipment in hazardous atmospheres, such as fuel trucks or carts transferring flammable materials. When properly clamped to ground, the static discharge reel dissipates static electrical buildup, reduces chances of sparking and the potential for explosion

Features

- Supplied with a 3/32" O.D. steel aircraft cable
- DC resistance is approximately one ohm per 50 ft of steel cable

Part #	Description
G3050	single 7 x 7 stranded steel grounding wire

Static Grounding Balls

Application

- To help prevent static electric sparking when loading or unloading tankers containing flammable products, the tanker is grounded using a grounding cable with spring clip attached to a tank mounted static grounding ball

Feature

- Helps eliminate static electricity sparking

Materials

- Brass or stainless steel

Specification

- Manufactured with 3/8"-16UN-3A thread



Part #	Description
GS1	brass grounding ball
GS1-2	brass grounding ball with lock washer and stainless steel nut
GS2	416 SS grounding ball

King Safety Whipsocks

Application

- Ideally suited for applications where the media being transferred is under higher working pressures such as air, water, hydraulic, and slurry

Features

- King safety whipsocks keep the hose under control in the event of a high-pressure hose assembly failure
- Dual anchor points secured beyond the fittings eliminate hose whip
- Be sure the anchoring points are rated for the application
- Galvanized steel woven stockings extend down the hose to grip securely over a larger area preventing whip, abrasion, and wear
- Securing both eye-to-rigid or eye-to-eye anchor points reduce whip in the event of a hose connection failure
- Contact Dixon® with questions regarding working pressure, available options, or custom configurations
- Certificate of Compliance (COC) available upon request



KSW32

Materials

- Wire rope: galvanized carbon steel
- Ferrules: aluminum



KSW40

Size	O.D. Range	Length	Part #
3/8"	.315" – .5512"	15.75"	KSW06
1/2"	.5512" – .7874"	21.65"	KSW08
3/4"	.7874" – 1.181"	25.20"	KSW12
1"	1.181" – 1.575"	34.25"	KSW16
1-1/4"	1.575" – 1.969"	38.19"	KSW20
1-1/2"	1.969" – 2.362"	49.21"	KSW24

NOTE: The restraint must never be load-bearing and is intended only as a secondary safety device.

King Safety Shackles

Applications

- Two shackles are used to anchor the King safety whipsock
- Secure both eyes to a rigid anchor point to reduce whip in the event of a hose or connection failure

Features

- Recommended bolt, nut, and cotter pin style shackle
- **CAUTION:** working load must be rated for the application



Size	Working Load	Fits KSW Eye	Micro Alloy Steel Part #
5/16"	3/4 ton (1,000 lbs)	KSW06-KSW12	KSS04
7/16"	1-1/2 ton (3,000 lbs)	KSW16-KSW40	KSS06
5/8"	3-1/4 ton (6,000 lbs)	KSW48-KSW96	KSS08

Nylon Safety Restraints

Applications

- Pneumatic, hydraulic, and water hoses

Materials

- Strap: nylon
- Grommets: rubber

Specification

- Maximum working temperature: 200°F (93°C)

Features

- Strong, flexible nylon webbing
- Superior corrosion and spark resistance over metal restraints
- Rubber grommets securely choke eyes around hose
- Must be installed in the extended position (no slack)
- Shipped with labels detailing working pressures and safety instructions
- Minimizes damage to equipment and injuries to operators in the event hose, couplings, or clamps fail, or there is an accidental separation of the assembly
- Contact Dixon® at 888.226.4673 for additional options



Length	Nylon Part #
30"	WBN130
40"	WBN140
30"	WBN230
44"	WBN244
64"	WBN264
44"	WBN344
64"	WBN364
64"	WBN464

Stainless Steel PTFE Thread Tape (Gray)

Application

- Useful on stainless steel threaded joints or connections

Features

- Not for use in oxygen applications
- PTFE with nickel added, nickel acts like a ball bearing
- Made in the U.S.

Specifications

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



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

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 #	Opt Qty
1/4 pint	LCTS14	24
1/2 pint	LCTS1	24
1 pint	LCTS2	12
1 quart	LCTS3	12

Dixon® Gauges

Application

- All of the gauges supplied by Dixon are designed for long, reliable service under rugged conditions. Typical applications include those on pumps, hydraulic and pneumatic systems, compressors, machine tools, and many other installations where it is necessary to have a gauge with a non-corrosive movement. The gauges available include standard dry and liquid-filled pressure gauges, compound pressure gauges, vacuum gauges, and welding gauges. Materials available include brass, stainless steel, and plastic

Figure Interval – Figure Interval (Increments between **PSI** numbers on gauge face)

Gradient Interval – Graduation Interval (Fractional increments between **PSI** numbers on gauge face)

ABS Standard Dry Gauges

Features

- ASME B40.1, Grade B ($\pm 3-2-3\%$ accuracy)
- PowerFlex™ movement with polyester segment, designed to resist the effects of shock, vibration, and pulsation

Materials

- ABS plastic case, corrosion resistant
- Polycarbonate window
- Black aluminum pointer

Specifications

- C-shaped bronze safety bourdon tube (**600 PSI** and lower)
- Helical wound bronze safety bourdon tube (**1000 PSI** and higher)
- Ambient temperature range: **-40°F to 150°F (-40°C to 66°C)**

Center Back Mounts

PSI Range	Figure Interval	Minor Gradient	1-1/2" Face 1/8" Center Back Mount Part #	2" Face 1/4" Center Back Mount Part #
0-15	1	.5	---	GC200
0-30	5	.5	GC605	GC215
0-60	5	1	GC610	GC220
0-100	10	2	GC615	GC225
0-160	20	5	GC620	GC230
0-200	20	5	GC625	GC235
0-300	30	5	---	GC240



GC230

Lower Mounts

PSI Range	Figure Interval	Minor Gradient	2" Face 1/4" Lower Mount Part #	2-1/2" Face 1/4" Lower Mount Part #	3-1/2" Face 1/4" Lower Mount Part #
0-15	1	.5	GL100	GL300	GS15-4
0-30	5	.5	GL115	GL320	GS30-4
0-60	5	1	GL120	GL325	GS60-4
0-100	10	2	GL125	GL330	GS100-4
0-160	20	5	GL130	GL335	GS160-4
0-200	20	5	GL135	GL340	GS200-4
0-300	30	5	GL140	GL345	GS300-4
0-400	50	10	---	GL347	GS400-4
0-600	50	10	---	GL350	GS600-4
0-1000	200	20	---	GL355	GS1000-4
0-1500	300	50	---	GL360	---
0-2000	400	50	---	GL365	---
0-3000	500	100	---	GL370	---
0-5000	1000	100	---	GL375	---



GL135

Stainless Steel Dry Gauges

2-1/2" Face

Application

- Designed for severe service applications, providing the corrosion resistance and durability of a permanently sealed gauge

Feature

- ± 2-1-2% accuracy

Materials

- 304 stainless steel case and crimp ring
- Polycarbonate window
- 1/4" NPT lower mount stainless connector
- 316 stainless bourdon tube and socket

Specification

- Ambient temperature range: 20°F to 158°F (-7°C to 70°C)



GSS100

PSI Range	Figure Interval	Minor Gradient	2-1/2" Face 1/4" Lower Mount Part #
0-15	3	.2	GSS15
0-30	5	.5	GSS30
0-60	10	1	GSS60
0-100	20	2	GSS100
0-160	20	2	GSS160
0-200	50	5	GSS200
0-300	50	5	GSS300
0-400	100	10	GSS400
0-600	100	10	GSS600
0-1000	200	20	GSS1000
0-1500	300	20	GSS1500
0-2000	500	50	GSS2000
0-3000	500	50	GSS3000
0-5000	1000	100	GSS5000
0-10000	2000	200	GSS10000

4" Face

Feature

- 1.6% accuracy, exceeds ASME B.40.100 Grade B

Specification

- Temperature range: 20°F to 150°F (-7°C to 66°C)

Materials

- 304 series stainless case
- Polycarbonate window, 3-1/2" across
- 1/4" NPT lower mount stainless connector
- 316L stainless bourdon tube and socket, polyester segment



GSS160-4

PSI Range	Figure Interval	Minor Gradient	4" Face 1/4" Lower Mount Part #
0-15	3	.5	GSS15-4
0-30	5	.5	GSS30-4
0-60	10	1	GSS60-4
0-100	20	2	GSS100-4
0-160	20	2	GSS160-4
0-200	40	5	GSS200-4
0-300	50	5	GSS300-4
0-400	50	10	GSS400-4
0-600	100	10	GSS600-4
0-1000	200	10	GSS1000-4
0-1500	200	20	GSS1500-4
0-3000	500	50	GSS3000-4
0-5000	1000	100	GSS5000-4
0-10000	2000	200	GSS10000-4

Process Gauges

Application

- Specifically designed for process, chemical, and petroleum industries, process gauges are engineered to deliver years of accurate service while withstanding vibration, corrosive media, and corrosive atmosphere

Features

- Accuracy: $\pm 0.5\%$ ANSI/ASME Grade 2A
- Scale: single scale **PSI** only

Materials

- Case: black impact resistant thermoplastic, with safety blowout back, solid front, integral back flange (dry)
- Ring: ethylene propylene
- Wetted parts: 316L stainless steel
- Window: polycarbonate
- Dial: white aluminum
- Pointer: black aluminum

Specification

- Temperature range: dry -40°F to 250°F (-40°C to 120°C)



PSI Range	Figure Interval	Minor Gradient	4-1/2" Face 1/2" Lower Mount Part #
0-30	5	.2	PGS30
0-60	10	.5	PGS60
0-100	10	1	PGS100
0-160	20	1	PGS160
0-200	20	2	PGS200
0-300	50	2	PGS300
0-600	10	5	PGS600
0-1000	100	10	PGS1000

FlutterGuard™ Dry Gauges

Features

- FlutterGuard virtually eliminates pointer flutter, making the gauge easier to read and reducing excessive movement wear; liquid-free casing results in lighter weight and eliminates the chance of gauge leakage
- ASME B40.1, Grade B (± 3-2-3% accuracy)
- PowerFlex™ movement with polyester segment, designed to resist the effects of shock, vibration, and pulsation

Materials

- Window: polycarbonate
- Pointer: black aluminum
- Case: ABS plastic, corrosion resistant

Specifications

- Ambient temperature range of -40°F to 150°F (-40°C to 66°C)
- C-shaped bronze safety bourdon tube (600 PSI gauges and lower)
- Helical wound bronze safety bourdon tube (1,000 PSI gauges and higher)



PSI Range	Figure Interval	Minor Gradient	2-1/2" Face 1/4" Lower Mount Part #
0-15	1	.5	GL300FG
0-30	5	.5	GL320FG
0-60	5	1	GL325FG
0-100	10	2	GL330FG
0-160	20	5	GL335FG
0-200	20	5	GL340FG
0-300	30	5	GL345FG
0-400	50	10	GL347FG
0-600	50	10	GL350FG
0-1000	200	20	GL355FG
0-1500	300	50	GL360FG
0-2000	400	50	GL365FG
0-3000	500	100	GL370FG
0-5000	1000	100	GL375FG

Stainless Panel Builder Gauges

Applications

- Fits industry standard 2.56" panel hole cutout
- Suitable for corrosive environments
- Used in gaseous and liquid media

Feature

- ASME B40.100 Grade A $\pm 2-1-2\%$ full scale accuracy

Materials

- Wetted parts: 316L stainless steel
- Case and ring: 304 stainless steel
- Stop pin: white aluminum with black lettering
- Pointer: black aluminum
- Case: glycerin filled
- Window lens: laminated safety glass

Specifications

- Ambient temperature range: -4°F to 140°F (-20°C to 60°C)
- Maximum media temperature 212°F maximum

PSI Range	Figure Interval	Minor Gradient	2-1/2" Face 1/4" Lower Back Mount Part #
0-15	3	.2	PBLSS15
0-30	5	.5	PBLSS30
0-60	10	1	PBLSS60
0-100	20	2	PBLSS100
0-160	20	2	PBLSS160
0-200	50	5	PBLSS200
0-300	50	5	PBLSS300
0-400	100	10	PBLSS400
0-600	100	10	PBLSS600
0-800	200	20	PBLSS800
0-1000	200	20	PBLSS1000
0-1500	300	20	PBLSS1500
0-2000	500	50	PBLSS2000
0-3000	500	50	PBLSS3000
0-5000	1000	100	PBLSS5000



Contractor Pressure Gauges

Feature

- Accuracy class: $\pm 1\%$ of span

Materials

- Wetted parts: copper alloy
- Window: acrylic, snap in
- Dial: aluminum, white
- Pointer: aluminum, black, adjustable
- Mounting flanged/bracket, rear flange: stainless steel
- Case: stainless steel

Specification

- Temperature range: -40°F to 250°F (-40°C to 120°C)

PSI Range	4-1/2" Face 1/4" Lower Mount Part #
0-15	4277750-0001
0-30	4277768-0001
0-60	4277776-0003



Compound Gauges

Feature

- ASME B40.1, Grade B accuracy (± 3-2-3 % accuracy)

Materials

- Case: ABS plastic, corrosion resistant
- Bourdon tube: bronze
- Socket: brass
- Window: polycarbonate
- Pointer: black aluminum
- Movement: Powerflex™ with polyester segment, designed for extended wear

Specification

- Temperature range of -40°F to 150°F (-40°C to 66°C)



Mercury (Hg)	PSI Range	Figure Interval (Hg/PSI)	Minor Gradient (Hg/PSI)	2-1/2" Face 1/4" Center Back Mount Part #	2-1/2" Face 1/4" Lower Mount Part #
30"	0-100	30/10	5/2	---	GL310
	0-160	30/20	5/5	GC210	---
	0-160	30/20	10/10	---	GL110
	0-200	30/20	10/10	---	GL315

Vacuum Gauges

Feature

- ASME B40.1, Grade B accuracy (± 3-2-3 % accuracy)

Materials

- Case: ABS plastic
- Bourdon tube: bronze
- Crystal: polycarbonate
- Pointer: black aluminum
- Movement: Powerflex with polyester segment, designed for extended wear

Specification

- Temperature range: -40°F to 150°F (-40°C to 66°C)



Mercury (Hg)	Figure Interval (Hg/PSI)	Minor Gradient (Hg/PSI)	2" Face 1/4" Lower Mount Part #	2" Face 1/4" Center Back Mount Part #	2-1/2" Face 1/4" Lower Mount Part #
30"	5"	.5"	GL105	GC205	GL305

ABS Case Liquid Filled Gauges

Feature

- ASME B40.100, Grade B ($\pm 3\text{-}2\text{-}3\%$ accuracy)

Specification

- Temperature range: -4°F to 140°F (-20°C to 60°C)

PSI Range	Figure Interval	Minor Gradient	2-1/2" Face 1/4" Lower Mount Part #
0-15	3	.2	GLP500
0-30	5	.5	GLP505
0-60	10	1	GLP510
0-100	20	2	GLP515
0-160	20	2	GLP517
0-200	50	5	GLP520
0-300	50	5	GLP525
0-400	100	10	GLP527
0-600	100	10	GLP530
0-1000	200	20	GLP535
0-1500	300	20	GLP540
0-2000	500	50	GLP545
0-3000	500	50	GLP550
0-5000	1000	100	GLP555



Stainless Case Liquid Filled Gauges

Features

- PowerFlex™ movement with polyester segment designed to resist the effects of shock, vibration, and pulsation
- ASME B40.100, Grade A ($\pm 2\text{-}1\text{-}2\%$ accuracy)
- 1/4" NPT brass connection

Materials

- Bourdon tube: copper alloy
- Dial: White aluminum with black numbers
- Pointer: black aluminum
- Glycerin filled
- Window: polycarbonate

Specification

- Temperature range: 20°F to 158°F (-7°C to 70°C)

PSI Range	Figure Interval	Minor Gradient	2-1/2" Face 1/4" Center Back Mount Part #	2-1/2" Face 1/4" Lower Mount Part #
0-15	3	.5	GLSC400	GLS400
0-30	5	.5	GLSC405	GLS405
0-60	10	1	GLSC410	GLS410
0-100	20	2	GLSC415	GLS415
0-160	20	2	GLSC417	GLS417
0-200	40	5	GLSC420	GLS420
0-300	50	5	GLSC425	GLS425
0-400	50	5	GLSC427	GLS427
0-600	100	10	GLSC430	GLS430
0-1000	200	10	GLSC435	GLS435
0-1500	300	50	GLSC440	GLS440
0-2000	400	20	GLSC445	GLS445
0-3000	500	50	GLSC450	GLS450
0-5000	1000	100	GLSC455	GLS455

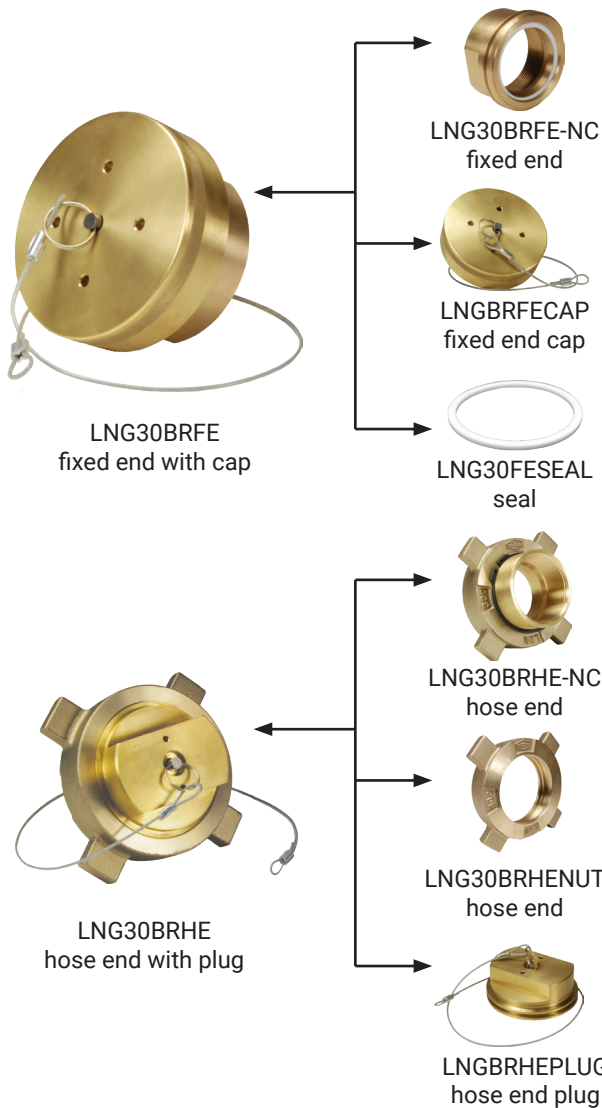


GLSC430



GLS420

Liquefied Natural Gas (LNG) Couplings



Application

- Safe and reliable transfer of cryogenic LNG products to transport equipment such as cargo tanks, portable tanks, and liquefied natural gas liquid production facilities

Sizes

- 2" and 3"

Features

- Fixed end design threads on tank truck pipe connection line, manifold, pipe outlet, or pipe connection
- PTFE gasket reduces force needed to make a tight connection
- Connect by hammering the acme threaded nut onto a fixed end
- Hose end designed female NPT thread attached to hose end
- Snap ring keeps connection nut in place for easier connecting
- Hose end lugs intended to be struck with a non-sparking hammer or similar non-sparking device

Materials

- Body: brass
- Seal: PTFE

Specifications

- Compatible with LNG couplings made to CGA guidelines
- Temperature as low as **-320°F (-196°C)** at standard LNG transfer pressures
- **450 PSI** working pressure with 4-to-1 safety factor

Approvals

- Meets CGA V-6 LNG-30 guidelines

Size	Description	Part #
2"	LNG30 fixed end with 2" female NPT thread/cap and retaining cable	LNG20BRFE
3"	LNG30 fixed end with 3" female NPT thread/cap and retaining cable	LNG30BRFE
3"	LNG30 fixed end with 3" female NPT thread	LNG30BRFE-NC
3"	LNG30 PTFE seal	LNG30FESEAL
	Cap for LNG30BRFE and LNG20BRFE	LNGBRFECAP

Size	Description	Part #
2"	LNG30 hose end with 2" female NPT thread/with plug and retaining cable	LNG20BRHE
3"	LNG30 hose end with 3" female NPT thread/with plug and retaining cable	LNG30BRHE
3"	LNG30 hose end with 3" female NPT thread	LNG30BRHE-NC
3"	LNG30 swivel nut	LNG30BRHENUT
	Plug for LNG30BRHE and LNG20BRHE	LNGBRHEPLUG

Cryogenic Dry Disconnect Couplings



Applications

- Container discharge
- Fuel bunkering
- Loading/unloading of tank trucks, rail cars, and ship tankers
- Vapor recovery lines

Sizes

- 1" – 8"

Features

- Single-action operation uses a straight-forward turning motion to connect the couplings and open the flow path
- Safe and reliable: valve cannot be opened until the unit is coupled and it closes automatically when disconnecting, eliminating spills
- Used with a wide range of cryogenic liquefied gases without the risk of cross connection due to human error
- Over 6,000 LNG fuel bunkering operations since 2013
- Used for receiving and storing liquid oxygen, liquid hydrogen, and LNG for rocket and engine testing

Material

- Stainless steel

Specifications

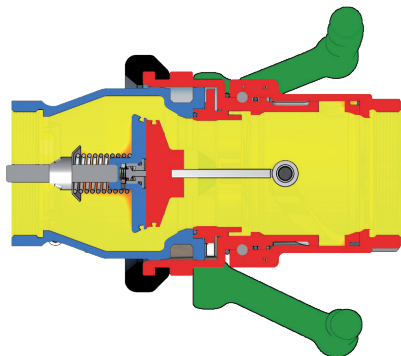
- Connections: female NPT, flanged EN and ANSI, others available on request
- Working pressure: 1" to 4" at **360 PSI**, 6" at **230 PSI**
- Minimum working temperature: **-328°F (-200°C)**

Approvals

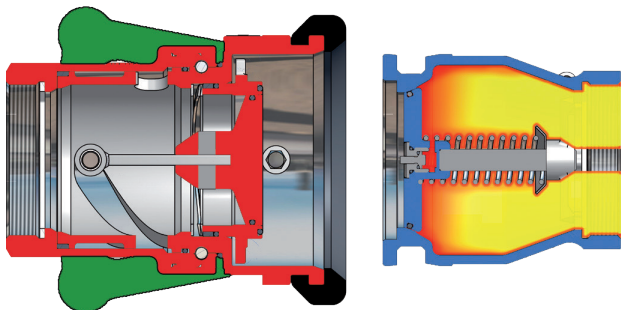
- Meets requirements for USCG 16715 CG-OES Policy Letter No. 02-15 use of dry disconnects and breakaway coupling/self sealing quick release
- Conforms to ISO/DTS 18683 dimensions for dry disconnects used for bunkering
- Couplings meeting ISO 21593 are available
- Meets MSC 95/3/4 (IGF code) Section 8.5 Requirements for bunkering system
- Meets The Society for Gas as a Marine Fuel (SGMF) Safety Guidelines for Bunkering
- Meets ASTM F3312/F3312M – 18 Standard Practice for Liquefied Natural Gas (LNG) Bunkering Hose Transfer Assembly
- DNV, NKK, and BV type approved

Cryogenic Dry Disconnect Couplings

How It Works



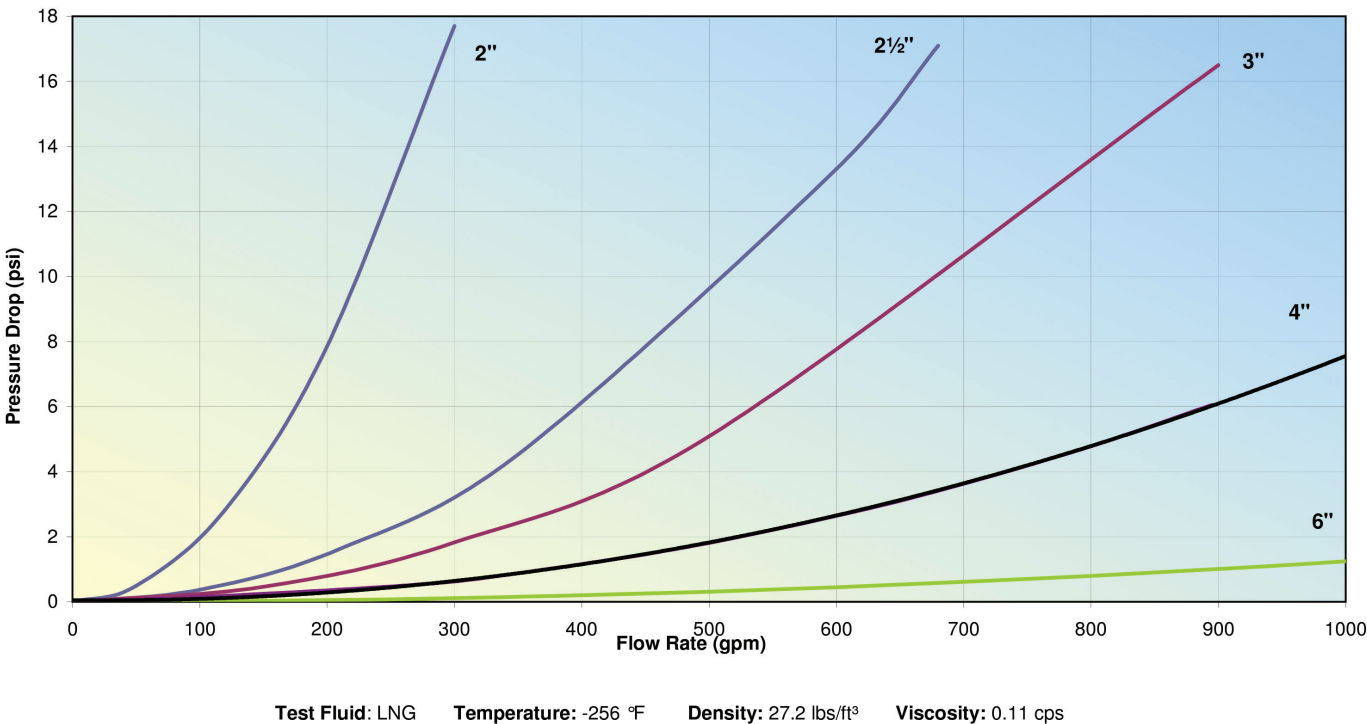
To connect:
Push and turn – it's coupled at full flow



To disconnect:
Turn and pull – it's released, no spillage

Dry cryogenic couplings consist of a tank unit or adapter with a spring loaded poppet and a hose unit or coupler with a valve driven by an internal cam. To couple, simply align the rollers on the coupler with the notches on the adapter, push the coupler onto the adapter and rotate past 100 degrees. This simple process locks the coupling together, creates a self-seal and opens the internal valves for full flow with low pressure drop. The dual poppet design shut-off mechanism safely seals liquids and gases behind the valve, eliminating fugitive emissions and the danger of a spill of cryogenic fluids.

Flow Diagram



Dixon® MannTek Cryogenic Dry Disconnects – Hose Unit

Applications

- Container discharge, fuel bunkering, loading/unloading of tank trucks, rail cars, ships, bunkering and tank vessels, vapor recovery lines. Suitable for cryogenic liquefied gases, such as LNG, nitrogen, oxygen, argon, and ethylene.
- Over 6,000 LNG fuel bunkering operations since 2013, used for receiving and storing liquid oxygen, liquid hydrogen, and LNG for rocket and engine testing

Specifications

- 1 to 4" **360 PSI** maximum, 6" **230 PSI** maximum
- Temperature rating: **-328°F (-200°C)** minimum
- Conforms to ISO/DTS 18683 dimensioned for dry disconnects used for bunkering

Material

- Seals: PTFE

Features

- Single action operation uses a straightforward turning motion to connect the couplings and open the flow path
- Safe and reliable: valve cannot be opened until the unit is coupled and it closes automatically when disconnecting, eliminating spills
- Used with a wide range of cryogenic liquefied gases without the risk of cross connection due to human error
- A quick and safe connection of hoses and loading arms under pressure and with minimized product loss

Female NPT

Size	316 Stainless Steel Part #
2"	CRYDDC200SS
3"	CRYDDC300SS
4"	CRYDDC400SS
6"	CRYDDC600SS

150# Flange

Size	316 Stainless Steel Part #
2"	CRYDDC200SSFL
3"	CRYDDC300SSFL
4"	CRYDDC400SSFL
6"	CRYDDC600SSFL



Dixon® MannTek Cryogenic Dry Disconnects Adapters – Tank Unit

Female NPT

Size	316 Stainless Steel Part #
3"	CRYDDA300SS
4"	CRYDDA400SS

150# Flange

Size	316 Stainless Steel Part #
2"	CRYDDA200SSFL
3"	CRYDDA300SSFL
4"	CRYDDA400SSFL
6"	CRYDDA600SSFL



Cryogenic Dry Disconnect Plugs

Size	Composite Part #
1-1/2" to 2"	CRYDDDP200
3"	CRYDDDP300



Dry Disconnect Couplings for Fueling Mobile Equipment



Applications

- Fueling on-highway trucks
- Fueling off-highway mobile equipment

Size

- 2", contact Dixon® for other sizes

Features

- Single-action operation uses a straight-forward turning motion to connect the couplings and open the flow path
- Safe and reliable system:
 - valve cannot be opened until the unit is coupled
 - valve closes automatically when disconnecting coupler
 - a safety detent applies when disconnecting coupler
- Used with a wide range of cryogenic liquefied gases without the risk of cross connection due to human error

Material

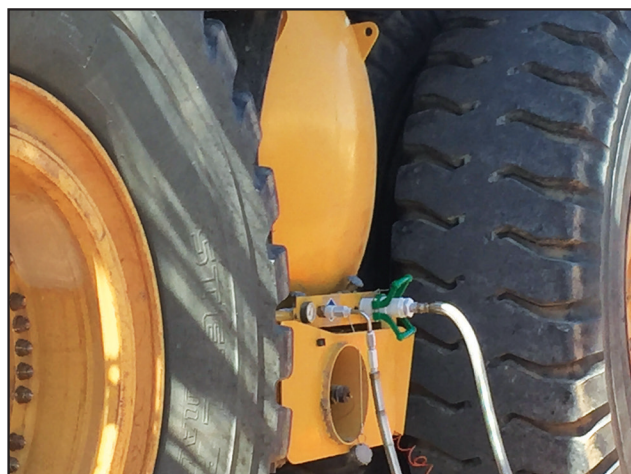
- Stainless steel
- PTFE seals

Specifications

- Coupler connection is female NPT
- Receptacle is flanged for easy install, or female NPT connection
- **360 PSI** working pressure
- **-328°F (-200°C)** minimum working temperature

Approvals

- Conforms to ISO/DTS 18683
- DNV, NKK, and BV type approved



LNG fueling application on off-highway mining truck

LNG Fill Line Nozzle

Application

- For refueling of heavy vehicles

Materials

- Body: stainless steel and brass alloy components
- Seals: PTFE

Specifications

- Flow Rate: **50 GPM**
- Max PSI: **490 PSI**
- Temperature range: **-320°F to 185°F**
(-195°C to 85°C)



Part #	Description
LNGN16	1 5/16"–12 Male JIC fill line connection with swivel function

LNG Vent Coupling

Application

- Vent coupling for overpressure regulation in the LNG tank of heavy vehicles, especially trucks, to enable refueling

Materials

- Body: stainless steel construction
- Seals: PTFE

Specifications

- Flow rate: **10 GPM**
- Max PSI: **490 PSI**
- Temperature range: **-320°F to 185°F**
(-195°C to 85°C)



Part #	Description
LNGVC10	7/8"–14 male JIC connection to vent line

LNG Safety Breakaways

Application

- Protects LNG dispensers from drive-away incidents by separating and stopping the flow

Feature

- Separation in axial and angular direction (up to 90°) at a pull force of 7kN

Materials

- Body: stainless steel body and internals
- Seals: PTFE

Specifications

- Flow Rate: **50 GPM**
- Max PSI: **490 PSI**
- Temperature range: **-320°F to 185°F**
(-195°C to 85°C)



LNGSBCVL10X25



LNGSBCVL10X75



LNGSBCFL16X25



LNGSBCFL16X16

Vent Line Connections

Part #	Description
LNGSBCVL10X25	7/8"–14 male JIC X DN25 flange
LNGSBCVL10X75	7/8"–14 male JIC X 3/4" male NPT

Fill Line Connections

Part #	Description
LNGSBCFL16X25	1-5/16"–12 male JIC X DN25 flange
LNGSBCFL16X16	1-5/16"–12 male JIC X 1" male NPT

Cryogenic Breakaway Couplings



Applications

- Container discharge
- Fuel bunkering
- Loading/unloading of tank trucks, rail cars, and ship tankers
- Vapor recovery lines

Sizes

- 1" - 8"

Features

- Operates independently of shut-off safety system and does not require an external power source
- Lightweight, easy to reset and repair on site with one person
- High flow rate/low pressure drop
- Positive shut-off of both coupling halves results in minimum product loss
- Passive security where a hose or loading arm could be subjected to inadvertent excessive loads
- Can be installed at fixed points or in the middle of hose strings
- Available as industrial or marine types
- No loose components that could be lost after release

Material

- Stainless steel

Specifications

- Connections: female NPT, flanged EN and ANSI, others available on request
- Working pressure: 1" to 4" = **360 PSI**, 6" = **230 PSI**
- Minimum working temperature: **-328°F (-200°C)**

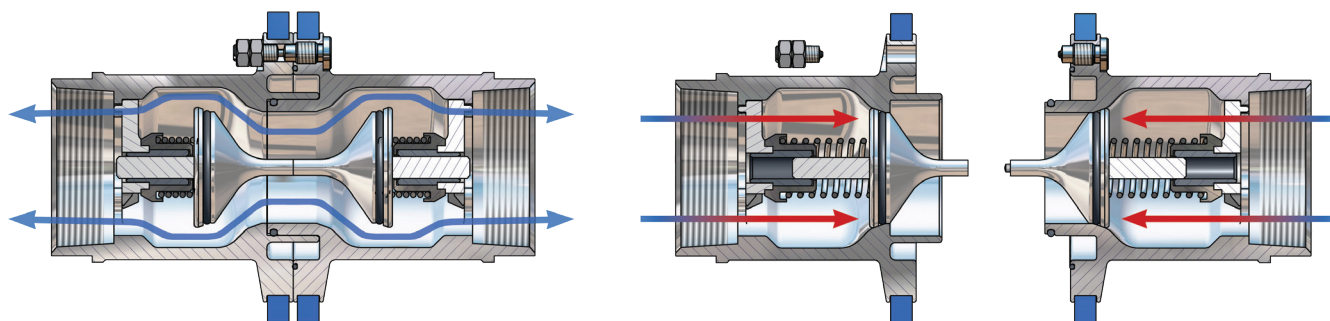


Cryogenic Breakaway Couplings

How It Works

The cryogenic breakaway couplings have three external break bolts. In the case of axial tension all the bolts take up the force corresponding to the break force on the hose with a safety margin.

Non-axial forces concentrate the tension forces more strongly on one bolt, so that the safety breakaway coupling reacts in a natural way to the reduction of the hose break forces.



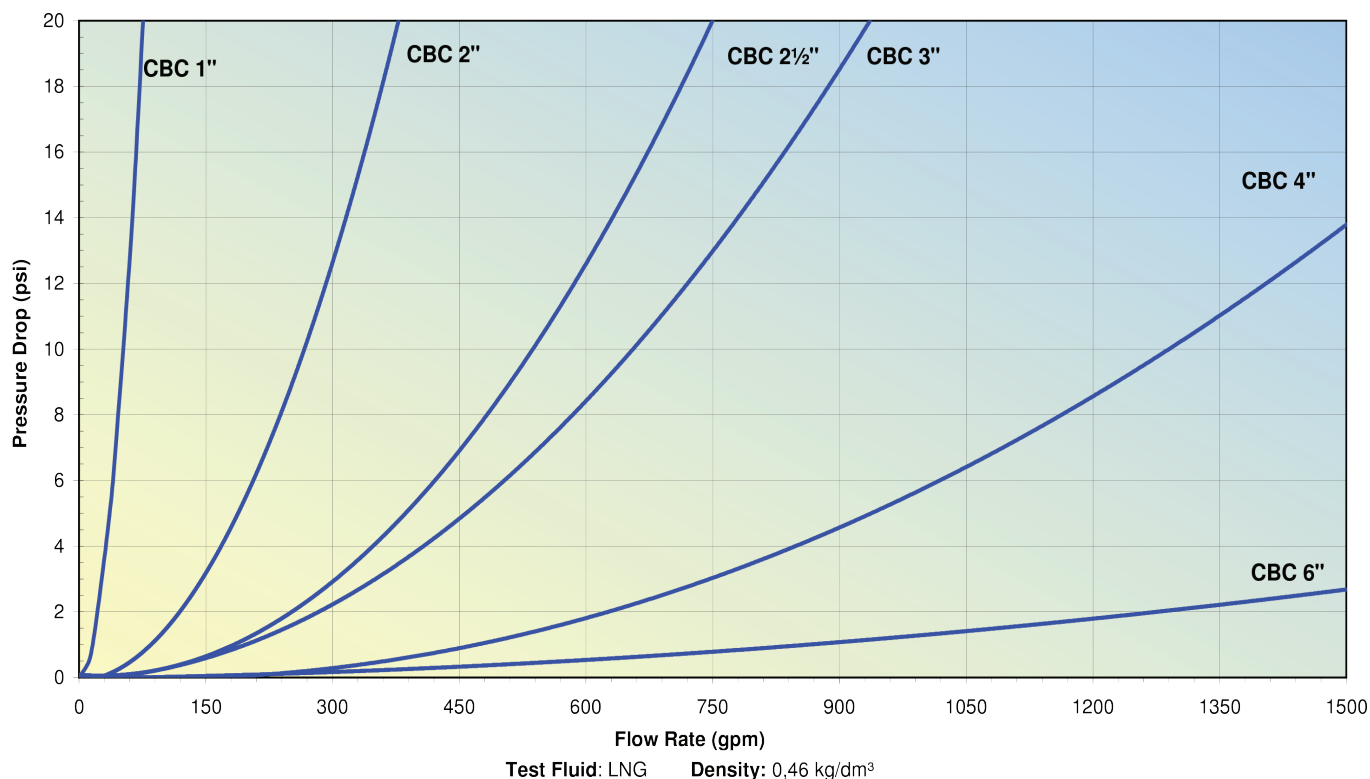
BEFORE emergency disconnect

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

AFTER emergency disconnect

When the cryogenic breakaway couplings separate, the valves are able to close. The two valves close rapidly, minimizing exposure to personnel and the environment.

Flow Diagram



Dixon® MannTek Cryogenic Safety Breakaways

Application

- Container discharge, fuel bunkering, loading/unloading of tank trucks, rail cars, ships, bunkering and tank vessels, vapor recovery lines. Suitable for cryogenic liquefied gases, such as LNG, nitrogen, oxygen, argon, and ethylene.

Material

- Seals: PTFE

Specifications

- 360 PSI maximum
- Temperature rating: -328°F (-200°C) minimum

Features

- Operates independently of shut-off safety system and does not require an external power source
- Lightweight, easy to reset and repair on site with one person
- High flow rate/low pressure drop
- Positive shut-off of both coupling halves results in minimum product loss
- Passive security where a hose or loading arm could be subjected to inadvertent excessive loads
- Can be installed at fixed points or in the middle of hose strings; no loose components that could be lost after release
- Available connections: female NPT, ANSI/EN1092 (DIN) flanges

Female NPT and Female NPT



Size	316 Stainless Steel Part #
1"	CRYSBC100SS
2"	CRYSBC200SS
3"	CRYSBC300SS
4"	CRYSBC400SS

150# Flange and 150# Flange



Size	316 Stainless Steel Part #
2"	CRYSBC200SSFL
3"	CRYSBC300SSFL

Power Emergency Release Coupling (PERC)

Applications

- Fuel bunkering
- Loading / unloading of tank trucks, rail cars, and ship tankers
- Vapor recovery lines

Sizes

- 4" (DN100) to 8" (DN200), others on request

Features

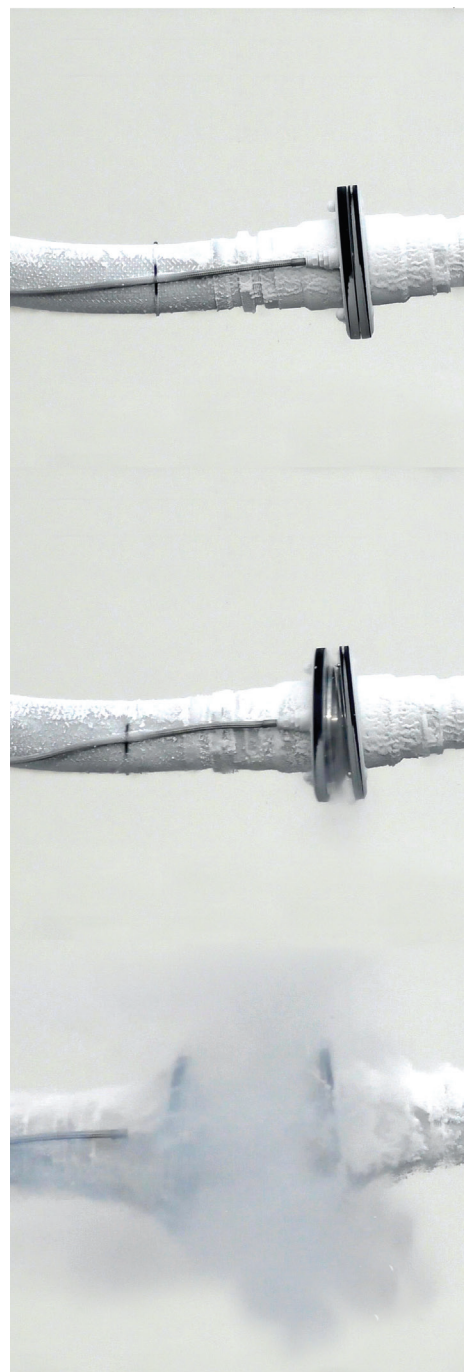
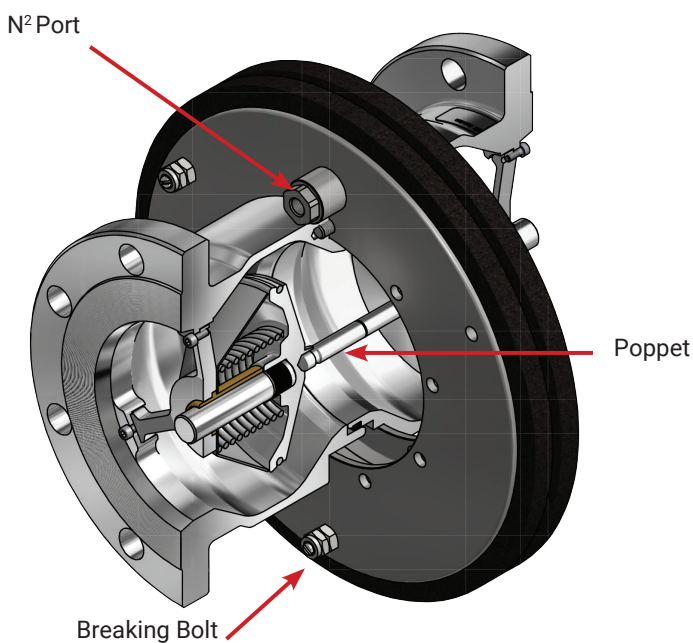
- Two halves close when there is excessive force or when pressurized nitrogen is introduced to the coupling halves from a control unit to break the bolts and separate the couplings

Materials

- Stainless steel
- Seal: PTFE

Specifications

- Calculation of the required wall thickness is made according to EN 12516-2
- Material is suitable for use with LNG and nitrogen to **-328°F (-200°C)** according to the recommendations in EN1160
- Conforms to specification EN10272 1.4404
- 316L conforms to specification ANSI A479
- Connections: NPT thread, EN1092 (DIN) or ANSI B16.5 flanges, others on request
- Temperature range: **-328°F (-200°C) to 150°F (65°C)**
- Recommended nitrogen supply pressure: 200 Bar (min 150 Bar)
- Recommended nitrogen latent seal pressure: 2 Bar
- Recommended tube/hose internal dimension: max 6.35 mm (1/4")
- Recommended tube/hose length: max 100m (smooth surface hose)
- Time to release: < 2 sec
- Gas consumption: max ~ 0.6 m³



Example of power emergency release coupling

Size	Nominal Size	PSI	Standard Break Force (kN)	Maximum Break Force (kN)
4"	DN100	360 PSI	52	85
6"	DN150	230 PSI	92	132
8"	DN200	230 PSI	165	270
10"	DN250	230 PSI	151	181

Power Emergency Release Coupling (PERC)

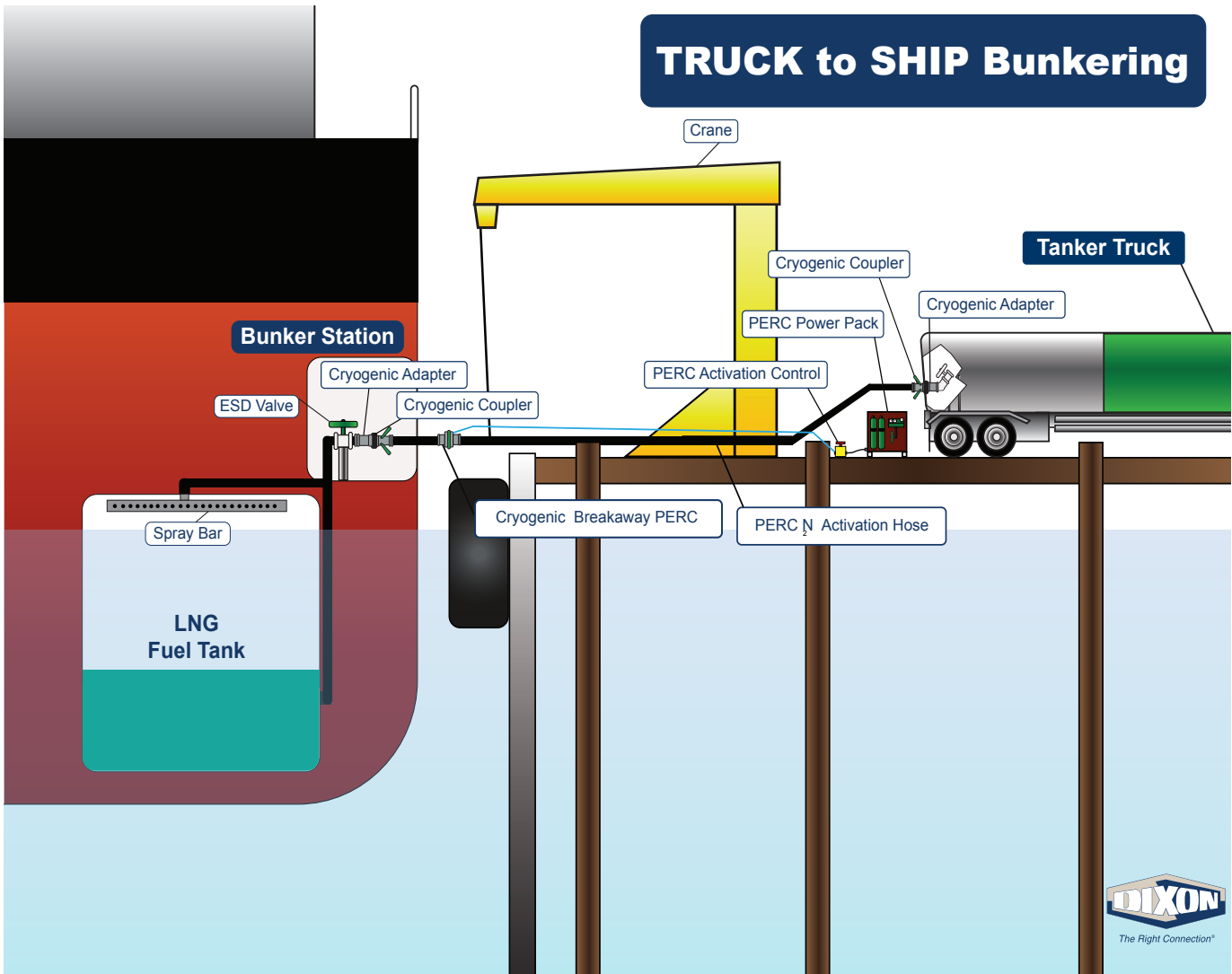


Breaking Pin Type Breakaways

•SAFE!

•SEPARATE ON COMMAND!

The MannTek Cryogenic PERC design combines the passive safety feature known from our breaking pin type breakaways with the ability to separate on command without any force on the hose. When actuated by a remote control, a pressurized gas cylinder will open and gas pressure will overcome the breaking bolts. The PERC system corresponds to standard EN1474-1:2008.



Cryogenic Breakaway Couplings – Cable Release

Applications

- Plant engineering, power plant construction, chemical industry, food processing, process technology, and tank cleaning
- Filling systems: railroads, rail cars, tank trucks, ships, tank containers, and liquefied gas

Sizes

- 1" (DN25) to 8" (DN200), others on request

Features

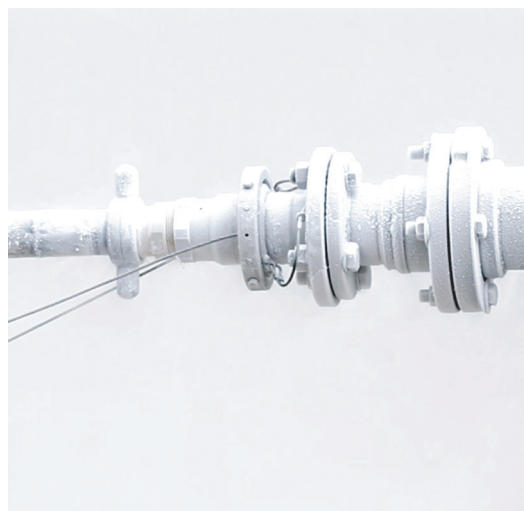
- Sturdy design
- Safe operation
- Release angle up to 90° by cable activation
- Maintenance friendly
- Break force does not change with system pressure or angle of pull
- Protects system components by minimizing the amount of stress placed on system

Materials

- Stainless steel
- Seals: PTFE

Specifications

- Calculation of wall thickness is made according to SS-EN 12516-2
- Material is suitable for use with LNG and Nitrogen to **-328°F (-200°C)** according to the recommendations in EN1160
- Connections: NPT thread, EN1092 (DIN) or ANSI B16.5 flanges, others on request
- Temperature range: **-328°F (-200°C) to 150°F (65°C)**
- Pressure: PS25 Bar
- Conforms to specification EN10272 1.4404
- 316L conforms to specification ANSI A479



Size	Nominal Size	MAWP
1"	DN25	360 PSI
2"	DN50	360 PSI
3"	DN80	360 PSI
4"	DN100	230 PSI
6"	DN150	230 PSI
8"	DN200	230 PSI

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.

About This Catalog and Our Products

This catalog is intended as a product offering. It is not intended to be a user or technical manual. Information in this catalog is subject to change without notice. All users and distributors of products sold through this catalog 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."

Trademark

Kamvalok® is a registered trademark of OPW Engineered Systems.

Delrin® and Zytel® are registered trademarks of E.I. duPont Nemours and Company.

Kalrez® is a registered trademark of DuPont Dow Elastomers.

All other trademarks appearing in the Dixon illustrated price list are the property of their respective owners.

Copyright

Copyright © 2026 by Dixon Valve and Coupling Company, LLC

All rights reserved. This book is copyrighted material. Use, reproduction or copying of it by anyone other than Dixon® is strictly forbidden without its express written consent.

NOTE: Reasonable care has been taken in preparing this catalog. Dixon Valve & Coupling Company, LLC reserves the right to make corrections.



...-40°F
... storage system is detected.
... instruction could result in death



TANK PRESSURE



**LOAD
COUPLINGS**

Dixon

Phone: 877.963.4966
Email: sales@dixonvalve.com
dixonvalve.com

Connect with us on



© 2026 DVCC

Printed in the USA

VIRTUALPIPELINEPRODUCTS_826

[illegible]