

Dix-Lock N-Series Pneumatic Couplings

Application

- Full flow coupling used on utility, air, water, and nitrogen lines as well as pneumatic tools

Features

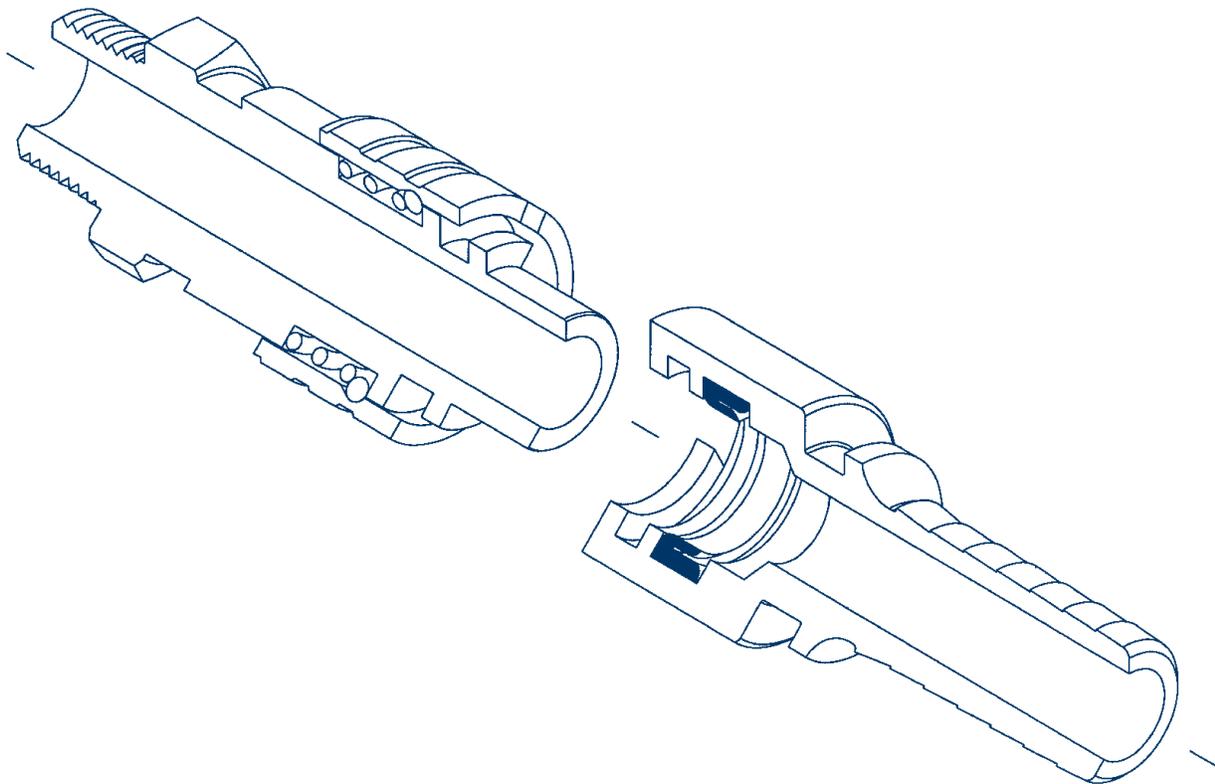
- Non-valved design allows air flow to the tool, while providing a quick, secure connection
- Convenient push-twist-click connection
- Locking sleeve offered to enhance safe, reliable connections
- Stainless steel retaining ring and spring maximizes corrosion resistance and extends service life
- Highly versatile end configuration selection
- Low profile prevents hose snags
- Interchangeable with Bowes 51000-Series, National Series 'B', MacDonald Quick-Action, Campbell Single-Lock
- Conforms to MIL-C-3486 and A-A-50431A Interchange Standard

Materials

- Machined components: manufactured using solid steel, brass, or 303 stainless steel bar stock, 316 stainless steel available in some versions upon request
- Steel componentry: plated using ROHS Compliant Trivalent Chrome
- Retaining ring and spring: stainless steel
- Coupling sleeve: cast zinc steel
- Locking ring: steel and brass nipple with aluminum ring, stainless nipple with stainless ring
- Seals: pneumatically energized Nitrile (Nitrile Rubber)
- Dust cap: steel and brass
- Dust cap cable: carbon steel

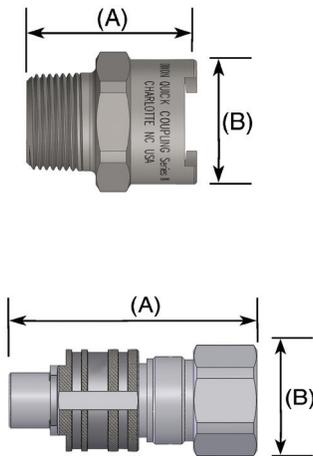
Specifications

- Temperature range: **-40°F to 250°F (-40°C to 121°C)**
- Pressure rating: **300 PSI** in brass, **500 PSI** in steel and 303 stainless steel at ambient temperature **70°F (21°C)**



Dix-Lock N-Series Pneumatic Couplings

Dimensions



Head Type	Overall Length (A)					Maximum OD (B)			
	Body Size	End Size	Female NPTF	Male NPTF	Hose Barb	Female NPTF	Male NPTF	Hose Barb	Hex Size
Female Head	3/8"	1/2"	-	1.80"	4.74"	-	1.10"	0.99"	1"
	1/2"	3/8"	1.63"	1.66"	4.54"	1.54"	1.50"	1.40"	1-3/8"
	1/2"	1/2"	1.63"	1.85"	4.95"	1.54"	1.50"	1.40"	1-3/8"
	1/2"	3/4"	1.63"	1.85"	4.95"	1.54"	1.50"	1.40"	1-3/8"
	1/2"	1"	1.68"	1.95"	5.77"	1.68"	1.50"	1.40"	1-1/2"
Male Head	3/8"	1/2"	-	3.36"	3.73"	-	1.13"	1.13"	1"
	1/2"	3/8"	2.92"	3.46"	4.36"	1.31"	1.31"	1.40"	1-3/16"
	1/2"	1/2"	2.92"	3.65"	4.63"	1.31"	1.31"	1.40"	1-3/16"
	1/2"	3/4"	3.42"	3.65"	4.77"	1.50"	1.31"	1.40"	1-3/16"
	1/2"	1"	3.59"	3.89"	4.77"	1.79"	1.51"	1.40"	1-3/8"

NOTE: All dimensions are shown in inches unless otherwise noted

Pressure Ratings

Body Size	Steel Coupler/ Plug				Brass Coupler/ Plug				303 Stainless Steel Coupler/Plug			
	Max Working		Burst		Max Working		Burst		Max Working		Burst	
	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar
3/8"	500	35	7,000	480	-	-	-	-	-	-	-	-
1/2"	500	35	11,000	755	300	20	8,200	565	500	35	12,600	865



Brass



Steel



303/316 stainless steel

Female Head x Female Threaded End Couplers

Body Size	Threads	Brass Part #	Steel Part #	303 Stainless Steel Part #	316 Stainless Steel Part #
1/2"	3/8"-18 NPTF	4NF3-B	4NF3	---	---
	3/8"-19 BSPP	---	4NBF3	---	---
	1/2"-14 NPTF	4NF4-B	4NF4	---	---
	1/2"-14 BSPP	4NBF4-B	4NBF4	---	---
	3/4"-14 NPTF	4NF6-B	4NF6	4NF6-S	4NF6-SS
	3/4"-14 BSPP	4NBF6-B	4NBF6	---	---
	1"-11-1/2 NPTF	4NF8-B	4NF8	---	4NF8-SS
	1"-11 BSPP	4NBF8-B	4NBF8	---	---

Dix-Lock N-Series Pneumatic Couplings



Brass



Steel



303/316 stainless steel

Male Head x Female Threaded End Plugs

Body Size	Threads	Brass Part #	Steel Part #	303 Stainless Steel Part #	316 Stainless Steel Part #
1/2"	3/8"-18 NPTF	N4F3-B	N4F3	---	---
	3/8"-19 BSPP	---	N4BF3	---	---
	1/2"-14 NPTF	N4F4-B	N4F4	---	---
	1/2"-14 BSPP	N4BF4-B	N4BF4	---	---
	3/4"-14 NPTF	N4F6-B	N4F6	N4F6-S	N4F6-SS
	3/4"-14 BSPP	N4BF6-B	N4BF6	---	---
	1"-11-1/2 NPTF	N4F8-B	N4F8	---	N4F8-SS
	1"-11 BSPP	N4BF8-B	N4BF8	---	---



Brass



Steel



303/316 stainless steel

Female Head x Male Threaded End Couplers

Body Size	Threads	Brass Part #	Steel Part #	303 Stainless Steel Part #	316 Stainless Steel Part #
3/8"	1/2" - 14 NPTF	---	3NM4	---	---
	1/2" - 14 BSPT	---	3NBM4	---	---
1/2"	3/8" - 18 NPTF	4NM3-B	4NM3	---	---
	3/8" - 19 BSPT	---	4NBM3	---	---
	1/2" - 14 NPTF	4NM4-B	4NM4	---	---
	1/2" - 14 BSPT	4NBM4-B	4NBM4	---	---
	3/4" - 14 NPTF	4NM6-B	4NM6	4NM6-S	4NM6-SS
	3/4" - 14 BSPT	4NBM6-B	4NBM6	---	---
	1" -11-1/2 NPTF	4NM8-B	4NM8	---	4NM8-SS
	1" - 11 BSPT	4NBM8-B	4NBM8	---	---

Dix-Lock N-Series Pneumatic Couplings



Male Head x Female Threaded End Safety Lock Plugs

Body Size	Threads	Brass Part #
1/2"	1/2" - 14 NPTF	N4F4-B-LS
	3/4" - 14 NPTF	N4F6-B-LS



Brass



Steel



303/316 stainless steel

Male Head x Male Threaded End Plugs

Body Size	Threads	Brass Part #	Steel Part #	303 Stainless Steel Part #	316 Stainless Steel Part #
3/8"	1/2"-14 NPTF	---	N3M4	---	---
	1/2"-14 BSPT	---	N3BM4	---	---
1/2"	3/8"-18 NPTF	N4M3-B	N4M3	---	---
	3/8"-19 BSPT	---	N4BM3	---	---
	1/2"-14 NPTF	N4M4-B	N4M4	---	---
	1/2"-14 BSPT	N4BM4-B	N4BM4	---	---
	3/4"-14 NPTF	N4M6-B	N4M6	N4M6-S	N4M6-SS
	3/4"-14 BSPT	N4BM6-B	N4BM6	---	---
	1"-11-1/2 NPTF	N4M8-B	N4M8	---	N4M8-SS
	1"-11 BSPT	N4BM8-B	N4BM8	---	---



Brass



Steel



303 stainless steel

Male Head x Male Threaded Safety Lock End Plugs

Body Size	Threads	Brass Part #	Steel Part #	303 Stainless Steel Part #
1/2"	1/2"-14 NPTF	N4M4-B-LS	N4M4-LS	---
	1/2"-14 BSPT	---	N4BM4-LS	---
	3/4"-14 NPTF	N4M6-B-LS	N4M6-LS	N4M6-S-LS
	3/4"-14 BSPT	---	N4BM6-LS	---

Dix-Lock N-Series Pneumatic Couplings



Brass



Steel



303/316 stainless steel

Female Head x Standard Hose Barb Couplers

Body Size	Hose I.D.	Brass Part #	Steel Part #	303 Stainless Steel Part #	316 Stainless Steel Part #
3/8"	1/2"	---	3NCS4	---	---
1/2"	3/8"	4NS3-B	4NS3	---	---
	1/2"	4NS4-B	4NS4	---	---
	3/4"	4NS6-B	4NS6	4NS6-S	4NS6-SS
	1"	4NS8-B	4NS8	4NS8-S	4NS8-SS



Brass



Steel



303/316 stainless steel

Male End x Hose Barb Plugs

Body Size	Hose I.D.	Brass Part #	Steel Part #	303 Stainless Steel Part #	316 Stainless Steel Part #
3/8"	1/2"	---	N3CS4	---	---
1/2"	3/8"	N4S3-B	N4S3	---	---
	1/2"	N4S4-B	N4S4	---	---
	3/4"	N4S6-B	N4S6	N4S6-S	N4S6-SS
	1"	N4S8-B	N4S8	N4S8-S	N4S8-SS



Brass



Steel



303 stainless steel

Male End x Hose Barb Safety Lock Plugs

Body Size	Hose I.D.	Brass Part #	Steel Part #	303 Stainless Steel Part #
1/2"	1/2"	N4S4-B-LS	N4S4-LS	---
	3/4"	N4S6-B-LS	N4S6-LS	N4S6-S-LS

Dix-Lock N-Series Pneumatic Couplings



Plated steel



Brass

Female Head with Ferrule

Body Size	Hose I.D.	Hose O.D.		Plated Steel Part #	Brass Part #
		From:	To:		
1/2"	1/2"	5/16"	1-2/64"	4NS4-WF	4NS4-B-WF
	3/4"	1-10/64"	1-22/64"	4NS6-WF	4NS6-B-WF



Plated steel



Brass

Male Head with Ferrule

Body Size	Hose I.D.	Hose O.D.		Plated Steel Part #	Brass Part #
		From:	To:		
1/2"	1/2"	5/16"	1-2/64"	N4S4-WF	N4S4-B-WF
	3/4"	1-10/64"	1-22/64"	N4S6-WF	N4S6-B-WF



Plated steel



Brass

Male Locking Head with Ferrule

Body Size	Hose I.D.	Hose O.D.		Plated Steel Part #	Brass Part #
		From:	To:		
1/2"	1/2"	5/16"	1-2/64"	N4S4-LS-WF	N4S4-B-LS-WF
	3/4"	1-10/64"	1-22/64"	N4S6-LS-WF	N4S6-B-LS-WF

Gender Change Union



Body Size	Configuration	Steel Part #
1/2"	coupler to coupler	4N4N

Caps



Brass

Body Size	Cap Lanyard	Brass Part #	Steel Part #
1/2"	steel cable	N4DC-B	N4DC

Seals



Body Size	Coupler Style	Nitrile Part #	FKM Part #
3/8"	all	3N-SKIT	---
1/2"	all	4N-SKIT	F-4N-SKIT

Crimped Dix-Lock N-Series Recommendation Guide

- The Crimped Dix-Lock Recommendation Guide is only a guide. It will not apply to every coupling situation. In some instances alternative dies and crimping dimensions must be employed to ensure safety.
- Experience has shown that variances in the construction of similar hoses and couplings may cause some assemblies to react differently when crimped. It is not uncommon to find hose with an outer diameter that fluctuates from one end to the other or from production lot to production lot.
- These inconsistencies coupled with the inherent differences between textile or wire braid, hard, or soft wall, the presence or absence of an internal spiral wire and the differences in hose coverings make it difficult to establish hard and fast rules.
- Therefore, its imperative that hose dimensions are accurately measured, assemblies are tested, and documentation is maintained.
- It is important to be safe when installing quick disconnect couplings into a pneumatic circuit. Never install a pneumatic coupling directly into an air tool, use a piece of hose that is at least 18" long, between the tool and the coupling, to prevent damage to the coupling.
- To protect the operator, safety devices, such as a safety check valve and safety cable should be installed in case there is a hose or coupling failure. For safety cables and check valves, call Dixon 877.963.4966 or visit dixonvalve.com.

NOTE: All dimensions are shown in inches unless otherwise noted

Hose ID	Hose OD		Crimp Diameter (± 0.005)	Crimp Length	% Reduction
	Fractional	Decimal			
1/2"	54/64"	0.844"	0.917"	1-1/8"	18.9
	55/64"	0.859"	0.929"	1-1/8"	18.9
	56/64"	0.875"	0.942"	1-1/8"	19.0
	57/67"	0.891"	0.954"	1-1/8"	19.0
	58/64"	0.906"	0.967"	1-1/8"	19.0
	59/64"	0.922"	0.980"	1-1/8"	19.0
	60/64"	0.938"	0.992"	1-1/8"	19.0
	61/64"	0.953"	1.005"	1-1/8"	19.0
	62/64"	0.969"	1.018"	1-1/8"	19.0
	63/64"	0.984"	1.030"	1-1/8"	19.0
	1"	1.000"	1.043"	1-1/8"	19.0
	1-1/64"	1.016"	1.056"	1-1/8"	19.0
	1-2/64"	1.031"	1.068"	1-1/8"	19.0
	1-10/64"	1.156"	1.220"	1-1/4"	18.5
3/4"	1-11/64"	1.171"	1.235"	1-1/4"	18.0
	1-12/64"	1.187"	1.244"	1-1/4"	18.7
	1-13/64"	1.203"	1.260"	1-1/4"	18.1
	1-14/64"	1.218"	1.270"	1-1/4"	18.8
	1-15/64"	1.234"	1.285"	1-1/4"	18.2
	1-16/64"	1.250"	1.295"	1-1/4"	18.8
	1-17/64"	1.265"	1.310"	1-1/4"	18.4
	1-18/64"	1.281"	1.320"	1-1/4"	18.8
	1-19/64"	1.296"	1.335"	1-1/4"	18.5
	1-20/64"	1.312"	1.345"	1-1/4"	19.0
	1-21/64"	1.328"	1.360"	1-1/4"	18.5
	1-22/64"	1.343"	1.370"	1-1/4"	19.0

Safety

Dixon 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 Manufacturer’s (ARPM) recommendations and be inspected regularly (before each use) to ensure that they are not damaged or have 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 are 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 Testing and Recommendation Services. Call 877.963.4966 or visit dixonvalve.com to learn more.

Dix-Lock N-Series Part Number Interchange Guide

Size	Material	Dixon® Part Number	Previous Dixon	Bowes	Campbell	National
3/8"	steel	N4S3	QM2	51 522	BMHS38	BMH6
	brass	N4S3-B	QB2	51 462	BMHB-38	B-BMH6
1/2"	steel	N3CS4	QM1	50-S-HM4	N/A	N/A
	steel	N4S4	QM3	51 424	BMHS-2	BMH8
3/4"	brass	N4S4-B	QB3	51 464	BMHB-2	B-BMH8
	steel	N4S6	QM4	51 526	BMHS-3	BMH12
	brass	N4S6-B	QB4	51 466	BMHB-3	B-BMH12
1"	303 stainless	N4S6-S	QSS4	N/A	N/A	N/A
	steel	N4S8	QM5	N/A	N/A	N/A
3/8"	brass	N4S8-B	QB5	N/A	N/A	N/A
	steel	4NS3	QM21	51 532	N/A	BFH6
1/2"	brass	4NS3-B	QB21	51 472	N/A	B-BFH6
	steel	3NCS4	QM20	50-S-HF4	N/A	N/A
3/4"	steel	4NS4	QM22	51 534	BFHS-2	BFH8
	brass	4NS4-B	QB22	51 474	BFHB-2	B-BFH8
1"	steel	4NS6	QM23	51 536	BFHS-3	BFH12
	brass	4NS6-B	QB23	51 476	BFHB-3	B-BFH12
3/4"	303 stainless	4NS6-S	QSS23	N/A	N/A	N/A
	steel	4NS8	QM25	N/A	N/A	N/A
1"	brass	4NS8-B	QB25	N/A	N/A	N/A
	steel	N4M3	QM41	51 542	BMMS-38	BMM6
3/8"	brass	N4M3-B	QB41	51 482	BMMB-38	B-BMM6
	steel	N3M4	QM40	50-S-OM4	N/A	N/A
1/2"	steel	N4M4	QM42	51 544	BMMS-2	BMM8
	brass	N4M4-B	QB42	51 484	BMMB-2	B-BMM8
3/4"	steel	N4M6	QM43	51 546	BMMS-3	BMM12
	brass	N4M6-B	QB43	51 486	BMMB-3	B-BMM12
1"	303 stainless	N4M6-S	QSS43	N/A	N/A	N/A
	steel	N4M8	QM45	N/A	N/A	N/A
3/8"	brass	N4M8-B	QB45	N/A	N/A	N/A
	steel	4NM3	QM61	51 552	BFMS-38	BFM6
1/2"	brass	4NM3-B	QB61	51 492	BFMB-38	B-BFM6
	steel	3NM4	QM60	50-S-OF4	N/A	N/A
3/4"	steel	4NM4	QM62	51 554	BFMS-2	BFM8
	brass	4NM4-B	QB62	51 494	BFMB-2	B-BFM8
1"	steel	4NM6	QM63	51 556	BFMS-3	BFM12
	brass	4NM6-B	QB63	51 496	BFMB-3	B-BFM12
3/4"	303 stainless	4NM6-S	QSS63	N/A	N/A	N/A
	steel	4NM8	QM65	N/A	BFMS-4	N/A
1"	brass	4NM8-B	QB65	N/A	BFMB-4	N/A
	steel	N4F3	QM81	51 562	BMFS-38	BMF6
3/8"	brass	N4F3-B	QB81	51 502	BMFB-38	B-BMF6
	steel	N4F4	QM82	51 564	BMFS-2	BMF8
1/2"	brass	N4F4-B	QB82	51 504	BMFB-2	B-BMF8
	steel	N4F6	QM83	51 566	BMFS-3	BMF12
3/4"	brass	N4F6-B	QB83	51 506	BMFS-3	B-BMF12
	303 stainless	N4F6-S	QSS83	N/A	N/A	N/A
1"	steel	N4F8	QM85	N/A	N/A	N/A
	brass	N4F8-B	QB85	N/A	N/A	N/A
3/8"	steel	4NF3	QM101	51 572	BFFS-38	BFF6
	brass	4NF3-B	QB101	51 512	BFFB-38	B-BFF6
1/2"	steel	4NF4	QM102	51 574	BFFS-2	BFF8
	brass	4NF4-B	QB102	51 514	BFFB-2	B-BFF8
3/4"	steel	4NF6	QM103	51 576	BFFS-3	BFF12
	brass	4NF6-B	QB103	51 516	BFFB-3	B-BFF12
1"	303 stainless	4NF6-S	QSS103	N/A	N/A	N/A
	steel	4NF8	QM105	N/A	BFFS-4	N/A
3/4"	brass	4NF8-B	QB105	N/A	BFFB-4	N/A
	steel	N4S4-LS	QM33	51 524-1	BMHS-2L	BMH8-LN
1/2"	brass	N4S4-B-LS	QB33	51 464-1	BMHB-2L	B-BMH8-LN
	steel	N4S6-LS	QM44	51 526-1	BMHS-3L	BMH12-LN
3/4"	brass	N4S6-B-LS	QB44	51 466-1	BMHB-3L	B-BMH12-LN
	steel	N4M4-LS	QM66	51 544-1	BMMS-2L	BMM8-LN
1/2"	brass	N4M4-B-LS	QB66	51 484-1	BMMB-2L	B-BMM8-LN
	steel	N4M6-LS	QM88	51 546-1	BMMS-3L	BMM12-LN
3/4"	brass	N4M6-B-LS	QB88	51 486-1	BMMB-3L	B-BMM12-LN

Limited Warranty

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

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

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

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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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