

Quick Release Couplings

N Series Bowes/MacDonald Interchange

Interchange Data:

- Bowes Interchange Bayonet Style
- Interchangeable with Bowes 51000-Series, National Series 'B', Dixon Dixlock, MacDonald Quick-Action, Adlock

Materials:

- Machined components are manufactured using solid Steel, Brass, or 303 Stainless Steel bar stock
- Phosphor Bronze retaining ring and spring maximise corrosion resistance and extend service life
- Steel componentry is plated using ROHS Compliant Trivalent Chrome
- Dust cap bead chain constructed of Stainless Steel



Seal Components:

- Nitrile (Buna-N) pneumatically energised seals are standard, temperature range -40°C to +121°C (-40°F to +250°F)

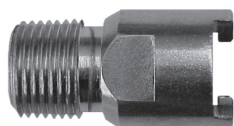
Rated Pressure Chart:

N-SERIES BOWES INTERCHANGE (CONNECTED)												
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	-	500	35	12,600	-

Technical Specifications:

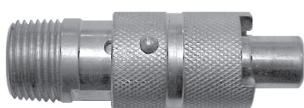
BODY SIZE	INTERCHANGE STANDARDS				FUNCTIONAL PARAMETERS				
	U.S. MILITARY	U.S. GOVERNMENT	INTERNATIONAL STANDARDS	ANSI/NFPA STANDARDS	LOCKING BALL QUANTITY	AIR INCLUSION	FLUID LOSS	VACUUM INCH HG	FLOW ΔP = 10 PSI CFM
3/8"	-	-	-	-	Latch Tabs	N/A	N/A	N/R	108
1/2"	MIL-C-3486	A-A-50431A	-	-	Latch Tabs	N/A	N/A	N/R	204

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.



(Male Thread)

N-SERIES BOWES INTERCHANGE (COUPLER)			
PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
3NM4	3/8"	1/2"-14 NPTF	Steel
3NBM4	3/8"	1/2"-14 BSPT	Steel



(Male Thread)

N-SERIES BOWES INTERCHANGE (NIPPLE)			
PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
N3M4	3/8"	1/2"-14 NPTF	Steel
N3BM4	3/8"	1/2"-14 BSPT	Steel



(Collar Barb)

N-SERIES BOWES INTERCHANGE (COUPLER)

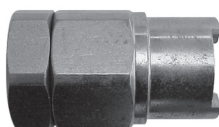
PART NO.	BODY SIZE	BARB CONFIGURATION	BODY MATERIAL
3NCS4	3/8"	1/2" Collar Barb	Steel



(Female Thread)

N-SERIES MACDONALD INTERCHANGE (UNVALVED COUPLER)

PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
4NF3	1/2"	3/8"-18 NPTF	Steel
4NF3-B	1/2"	3/8"-18 NPTF	Brass
4NBF3	1/2"	3/8"-19 BSPP	Steel
4NF4	1/2"	1/2"-14 NPTF	Steel
4NF4-B	1/2"	1/2"-14 NPTF	Brass
4NBF4	1/2"	1/2"-14 BSPP	Steel
4NBF4-B	1/2"	1/2"-14 BSPP	Brass
4NF6	1/2"	3/4"-14 NPTF	Steel
4NF6-B	1/2"	3/4"-14 NPTF	Brass
4NF6-S	1/2"	3/4"-14 NPTF	303 Stainless Steel
4NBF6	1/2"	3/4"-14 BSPP	Steel
4NBF6-B	1/2"	3/4"-14 BSPP	Brass
4NF8	1/2"	1"-11 1/2 NPTF	Steel
4NF8-B	1/2"	1"-11 1/2 NPTF	Brass
4NBF8	1/2"	1"-11 BSPP	Steel
4NBF8-B	1/2"	1"-11 BSPP	Brass



(Female Thread)

N-SERIES MACDONALD INTERCHANGE (VALVED COUPLER)

PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
4NF6-V	1/2"	3/4"-14 NPTF	Steel
4NBF6-V	1/2"	3/4"-14 BSPP	Steel



(Female Thread)

N-SERIES MACDONALD INTERCHANGE (NIPPLE)

PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
N4F3	1/2"	3/8"-18 NPTF	Steel
N4F3-B	1/2"	3/8"-18 NPTF	Brass
N4BF3	1/2"	3/8"-19 BSPP	Steel
N4F4	1/2"	1/2"-14 NPTF	Steel
N4F4-B	1/2"	1/2"-14 NPTF	Brass
N4BF4	1/2"	1/2"-14 BSPP	Steel
N4BF4-B	1/2"	1/2"-14 BSPP	Brass
N4F6	1/2"	3/4"-14 NPTF	Steel
N4F6-B	1/2"	3/4"-14 NPTF	Brass
N4F6-S	1/2"	3/4"-14 NPTF	303 Stainless Steel
N4BF6	1/2"	3/4"-14 BSPP	Steel
N4BF6-B	1/2"	3/4"-14 BSPP	Brass
N4F8	1/2"	1"-11 1/2 NPTF	Steel
N4F8-B	1/2"	1"-11 1/2 NPTF	Brass
N4BF8	1/2"	1"-11 BSPP	Steel
N4BF8-B	1/2"	1"-11 BSPP	Brass

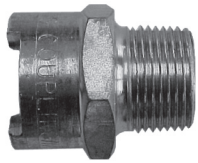


(Female Thread)

N-SERIES MACDONALD INTERCHANGE (SAFETY-LOCK NIPPLE)

PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
N4F4-B-LS	1/2"	1/2"-14 NPTF	Brass
N4F6-B-LS	1/2"	3/4"-14 NPTF	Brass

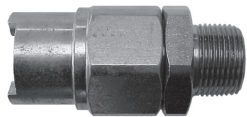
Quick Release Couplings



(Male Thread)

N-SERIES MACDONALD INTERCHANGE (UNVALVED COUPLER)

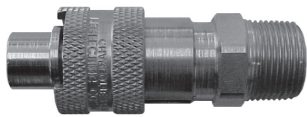
PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
4NM3	1/2"	3/8"-18 NPTF	Steel
4NM3-B	1/2"	3/8"-18 NPTF	Brass
4NBM3	1/2"	3/8"-19 BSPT	Steel
4NM4	1/2"	1/2"-14 NPTF	Steel
4NM4-B	1/2"	1/2"-14 NPTF	Brass
4NBM4	1/2"	1/2"-14 BSPT	Steel
4NBM4-B	1/2"	1/2"-14 BSPT	Brass
4NM6	1/2"	3/4"-14 NPTF	Steel
4NM6-B	1/2"	3/4"-14 NPTF	Brass
4NM6-S	1/2"	3/4"-14 NPTF	303 Stainless Steel
4NBM6	1/2"	3/4"-14 BSPT	Steel
4NBM6-B	1/2"	3/4"-14 BSPT	Brass
4NM8	1/2"	1"-11 1/2 NPTF	Steel
4NM8-B	1/2"	1"-11 1/2 NPTF	Brass
4NBM8	1/2"	1"-11 BSPT	Steel
4NBM8-B	1/2"	1"-11 BSPT	Brass



(Male Thread)

N-SERIES MACDONALD INTERCHANGE (VALVED COUPLER)

PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
4NM6-V	1/2"	3/4"-14 NPTF	Steel



(Male Thread)

N-SERIES MACDONALD INTERCHANGE (NIPPLE)

PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
N4M3	1/2"	3/8"-18 NPTF	Steel
N4M3-B	1/2"	3/8"-18 NPTF	Brass
N4BM3	1/2"	3/8"-19 BSPT	Steel
N4M4	1/2"	1/2"-14 NPTF	Steel
N4M4-B	1/2"	1/2"-14 NPTF	Brass
N4BM4	1/2"	1/2"-14 BSPT	Steel
N4BM4-B	1/2"	1/2"-14 BSPT	Brass
N4M6	1/2"	3/4"-14 NPTF	Steel
N4M6-B	1/2"	3/4"-14 NPTF	Brass
N4M6-S	1/2"	3/4"-14 NPTF	303 Stainless Steel
N4BM6	1/2"	3/4"-14 BSPT	Steel
N4BM6-B	1/2"	3/4"-14 BSPT	Brass
N4M8	1/2"	1"-11 1/2 NPTF	Steel
N4M8-B	1/2"	1"-11 1/2 NPTF	Brass
N4BM8	1/2"	1"-11 BSPT	Steel
N4BM8-B	1/2"	1"-11 BSPT	Brass



(Male Thread)

N-SERIES MACDONALD INTERCHANGE (SAFETY-LOCK NIPPLE)

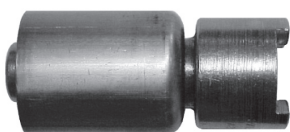
PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
N4M4-LS	1/2"	1/2"-14 NPTF	Steel
N4M4-B-LS	1/2"	1/2"-14 NPTF	Brass
N4BM4-LS	1/2"	1/2"-14 BSPT	Steel
N4M6-LS	1/2"	3/4"-14 NPTF	Steel
N4M6-B-LS	1/2"	3/4"-14 NPTF	Brass
N4M6-S-LS	1/2"	3/4"-14 NPTF	303 Stainless Steel
N4BM6-LS	1/2"	3/4"-14 BSPT	Steel

X



(Hose Barb - now accepts light duty ferrules)

N-SERIES MACDONALD INTERCHANGE (COUPLER)			
PART NO.	BODY SIZE	BARB CONFIGURATION	BODY MATERIAL
4NS3	1/2"	3/8" Hose Barb	Steel
4NS3-B	1/2"	3/8" Hose Barb	Brass
4NS4	1/2"	1/2" Hose Barb	Steel
4NS4-B	1/2"	1/2" Hose Barb	Brass
4NS6	1/2"	3/4" Hose Barb	Steel
4NS6-B	1/2"	3/4" Hose Barb	Brass
4NS6-S	1/2"	3/4" Hose Barb	303 Stainless Steel
4NS8	1/2"	1" Hose Barb	Steel
4NS8-B	1/2"	1" Hose Barb	Brass



(Hose Barb with Staked Ferrule)

N-SERIES MACDONALD INTERCHANGE (COUPLER)			
PART NO.	BODY SIZE	HOSE (ID) OD RANGE	BODY MATERIAL
4NCS4-WF43	1/2"	(1/2") 27/32" to 11/32"	Steel
4NCS4-B-WF43	1/2"	(1/2") 27/32" to 11/32"	Brass
4NCS6-WF63	1/2"	(3/4") 15/32" to 11/32"	Steel
4NCS6-B-WF63	1/2"	(3/4") 15/32" to 11/32"	Brass
4NCS6-S-WFS63	1/2"	(3/4") 15/32" to 11/32"	303 Stainless Steel



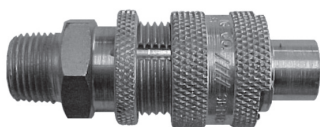
(Hose Barb - now accepts light duty ferrules)

N-SERIES MACDONALD INTERCHANGE (NIPPLE)			
PART NO.	BODY SIZE	BARB CONFIGURATION	BODY MATERIAL
N4S3	1/2"	3/8" Hose Barb	Steel
N4S3-B	1/2"	3/8" Hose Barb	Brass
N4S4	1/2"	1/2" Hose Barb	Steel
N4S4-B	1/2"	1/2" Hose Barb	Brass
N4S6	1/2"	3/4" Hose Barb	Steel
N4S6-B	1/2"	3/4" Hose Barb	Brass
N4S6-S	1/2"	3/4" Hose Barb	303 Stainless Steel
N4S8	1/2"	1" Hose Barb	Steel
N4S8-B	1/2"	1" Hose Barb	Brass



(Hose Barb with Staked Ferrule)

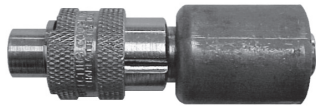
N-SERIES MACDONALD INTERCHANGE (NIPPLE)			
PART NO.	BODY SIZE	HOSE (ID) OD RANGE	BODY MATERIAL
N4CS4-WF43	1/2"	(1/2") 27/32" to 11/32"	Steel
N4CS4-B-WF43	1/2"	(1/2") 27/32" to 11/32"	Brass
N4CS6-WF63	1/2"	(3/4") 15/32" to 11/32"	Steel
N4CS6-B-WF63	1/2"	(3/4") 15/32" to 11/32"	Brass
N4CS6-S-WFS63	1/2"	(3/4") 15/32" to 11/32"	303 Stainless Steel



(Hose Barb - now accepts light duty ferrules)

N-SERIES MACDONALD INTERCHANGE (SAFETY-LOCK NIPPLE)			
PART NO.	BODY SIZE	BARB CONFIGURATION	BODY MATERIAL
N4S4-LS	1/2"	1/2" Hose Barb	Steel
N4S4-B-LS	1/2"	1/2" Hose Barb	Brass
N4S6-LS	1/2"	3/4" Hose Barb	Steel
N4S6-B-LS	1/2"	3/4" Hose Barb	Brass
N4S6-S-LS	1/2"	3/4" Hose Barb	303 Stainless Steel

Quick Release Couplings



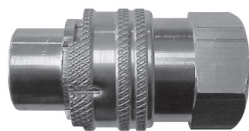
(Hose Barb with Staked Ferrule)

N-SERIES MACDONALD INTERCHANGE (SAFETY-LOCK NIPPLE)			
PART NO.	BODY SIZE	HOSE (ID) OD RANGE	BODY MATERIAL
N4CS4-LS-WF43	1/2"	(1/2") 27/32" to 1 1/32"	Steel
N4CS4-B-LS-WF43	1/2"	(1/2") 27/32" to 1 1/32"	Brass
N4CS6-LS-WF63	1/2"	(3/4") 15/32" to 1 1/32"	Steel
N4CS6-B-LS-WF63	1/2"	(3/4") 15/32" to 1 1/32"	Brass
N4CS6-S-LS-WFS63	1/2"	(3/4") 15/32" to 1 1/32"	303 Stainless Steel



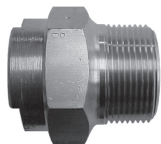
(Female Thread)

N-SERIES BOWES INTERCHANGE (COUPLER)			
PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
10NF8-B	1 1/4"	1"-11 1/2 NPTF	Brass
10NF10-B	1 1/4"	1 1/4"-11 1/2 NPTF	Brass



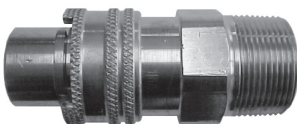
(Female Thread)

N-SERIES BOWES INTERCHANGE (NIPPLE)			
PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
N10F8-B	1 1/4"	1"-11 1/2 NPTF	Brass
N10F10-B	1 1/4"	1 1/4"-11 1/2 NPTF	Brass



(Male Thread)

N-SERIES BOWES INTERCHANGE (COUPLER)			
PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
10NM8-B	1 1/4"	1"-11 1/2 NPTF	Brass
10NM10-B	1 1/4"	1 1/4"-11 1/2 NPTF	Brass

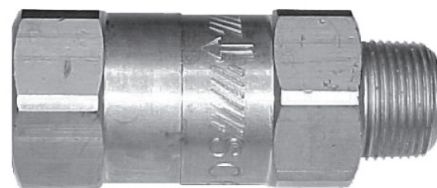


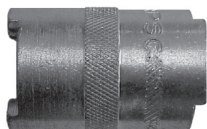
(Male Thread)

N-SERIES BOWES INTERCHANGE (NIPPLE)			
PART NO.	BODY SIZE	THREAD SIZE	BODY MATERIAL
N10M8-B	1 1/4"	1"-11 1/2 NPTF	Brass
N10M10-B	1 1/4"	1 1/4"-11 1/2 NPTF	Brass

X

A Safety Check Valve, also known as an Excessive Flow Sensor should be installed at the source of supply to protect the operator in case of coupling failure or hose rupture.





N-SERIES MACDONALD INTERCHANGE (GENDER-CHANGE UNION)

PART NO.	BODY SIZE	PART DESCRIPTION	BODY MATERIAL
4N4N	1/2"	Coupler to Coupler	Steel



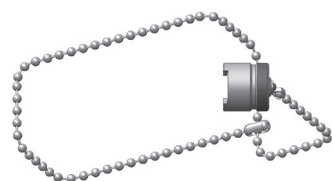
N-SERIES MACDONALD INTERCHANGE (Y-COUPPLERS)

PART NO.	BODY SIZE	INLET/OUTLET CONFIGURATION	BODY MATERIAL
N4Y4N-4N	1/2"	Nipple to Couplers	Steel



N-SERIES MACDONALD INTERCHANGE (Y-NIPPLES)

PART NO.	BODY SIZE	INLET/OUTLET CONFIGURATION	BODY MATERIAL
4NYN4-N4	1/2"	Nipple to Couplers	Steel



N-SERIES BOWES INTERCHANGE PROTECTIVE NIPPLE CAP

PART NO	BODY SIZE	LANYARD	BODY
N4DC	1/2"	SS bead chain	Steel
N4DC-B	1/2"	SS bead chain	Brass