

Pneumatic Couplings: M-Series

Interchange Data

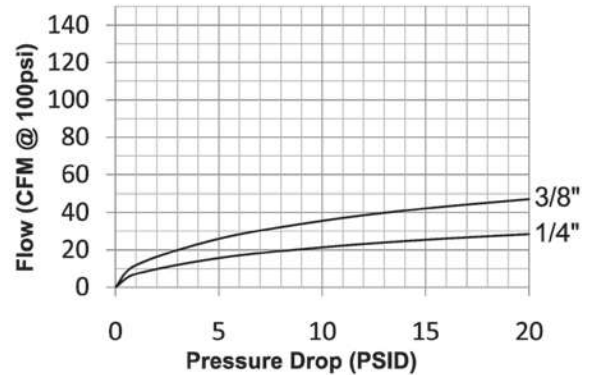
- ARO 210 (1/4") and ARO 310 (3/8") interchange
- Automatic couplings interchange with ARO 210/310 and Hansen Series 210/310
- Manual couplings interchange with Parker 50-Series and Amflo type B

Materials

- Machined components are manufactured using solid steel or brass bar stock.
- Stainless steel springs; carbon steel balls, retaining rings, and pins
- Steel componentry is plated using ROHS-compliant trivalent chrome
- Automatic couplers constructed of steel
- Manual couplers constructed of brass

Seal Components

- Nitrile (Buna-N) seals are standard, providing a temperature range of -40°F to 250°F (-40°C to 121°C)

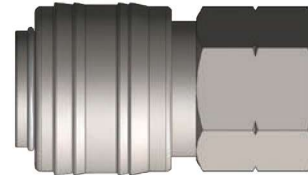
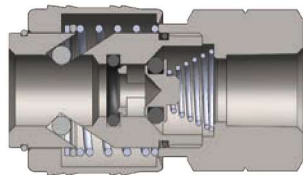


Rated Pressure Chart

Body Size	M-Series ARO Interchange (Connected)															
	Auto Coupler/Steel Plug				Auto Coupler/Brass Plug				Manual Coupler/Steel Plug				Manual Coupler/Brass Plug			
	Max. Working		Burst		Max. Working		Burst		Max. Working		Burst		Max. Working		Burst	
	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar	PSI	Bar
1/4"	300	20	2,600	179	300	20	5,000	345	300	20	12,400	855	300	20	12,700	876
3/8"	300	20	3,300	228	-	-	-	-	-	-	-	-	-	-	-	-

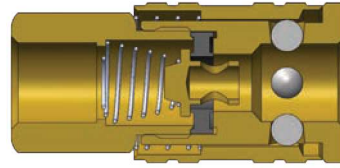
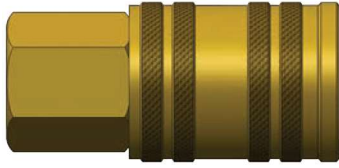
Technical Specifications

Body Size	Interchange Standards				Functional Parameters				
	U.S. Military	U.S. Government	International Standards	ANSI/NFPA Standards	Locking Mechanism	Air Inclusion	Fluid Loss	Vacuum Rating	Flow ΔP = 15 PSI
1/4"	-	-	-	-	Manual - 4 Ball	N/A	N/A	N/R	25 CFM
	-	-	-	-	Auto - Pins	N/A	N/A	N/R	22 CFM
3/8"	-	-	-	-	Auto - Pins	N/A	N/A	N/R	42 CFM



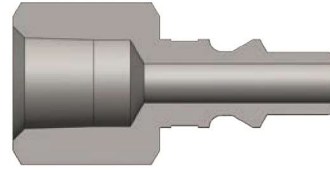
Body Size	M-Series Automatic ARO Interchange Coupler (Female Threads)							
	Part Detail			Length		Maximum OD		Hex Inch
	Part #	Threads	Material	inch	mm	inch	mm	
1/4"	2MF2-PL	1/4" - 18 NPT	steel/brass	1.72	43.6	1.06	27.0	13/16"
	2MF3-PL	3/8" - 18 NPT	steel/brass	1.72	43.6	1.06	27.0	13/16"
3/8"	3MF3-PL	3/8" - 18 NPT	steel/brass	1.93	49.0	1.26	32.0	1-1/16"

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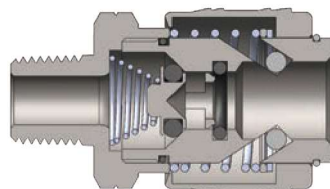
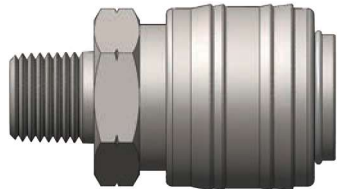
M-Series Manual ARO Interchange Coupler (Female Threads)

Body Size	M-Series Manual ARO Interchange Coupler (Female Threads)							
	Part Detail			Length		Maximum OD		Hex Inch
	Part #	Threads	Material	inch	mm	inch	mm	
1/4"	2MF2-B	1/4" - 18 NPT	brass	1.97	50.0	0.87	22.0	3/4"
	2MF3-B	3/8" - 18 NPT	brass	2.05	52.0	0.87	22.0	13/16"



M-Series ARO Interchange Plug (Female Threads)

Body Size	M-Series ARO Interchange Plug (Female Threads)							
	Part Detail			Length		Maximum OD		Hex Inch
	Part #	Threads	Material	inch	mm	inch	mm	
1/4"	M2F2	1/4" - 18 NPTF	steel	1.57	39.9	0.79	20.1	11/16"
	M2F2-B	1/4" - 18 NPTF	brass	1.57	39.9	0.79	20.1	11/16"
	M2F3	3/8" - 18 NPTF	steel	1.57	39.9	1.01	25.7	7/8"
3/8"	M3F3	3/8" - 18 NPTF	steel	1.82	46.2	1.01	25.7	7/8"

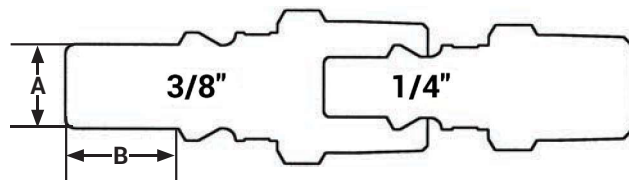


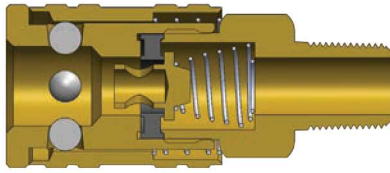
M-Series Automatic ARO Interchange Coupler (Male Threads)

Body Size	M-Series Automatic ARO Interchange Coupler (Male Threads)							
	Part Detail			Length		Maximum OD		
	Part #	Threads	Material	inch	mm	inch	mm	
1/4"	2MM2-PL	1/4" - 18 NPT	steel/brass	1.70	43.2	1.06	27.0	
	2MM3-PL	3/8" - 18 NPT	steel/brass	1.80	45.6	1.06	27.0	
3/8"	3MM3-PL	3/8" - 18 NPT	steel/brass	1.89	48.0	1.26	32.0	
	3MM4-PL	1/2" - 14 NPTF	steel/brass	1.89	48.0	1.26	32.0	

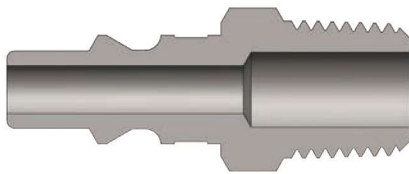
M Series Profiles

Body Size	A	B
1/4"	0.31	0.33
3/8"	0.43	0.59

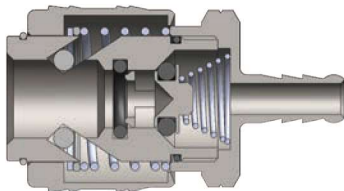




Body Size	M-Series Manual ARO Interchange Coupler (Male Threads)							
	Part Detail			Length		Maximum OD		Hex Inch
	Part #	Threads	Material	inch	mm	inch	mm	
1/4"	2MM2-B	1/4" - 18 NPT	brass	2.13	54.0	0.87	22.0	3/4"
	2MM3-B	3/8" - 18 NPT	brass	2.13	54.0	0.87	22.0	13/16"

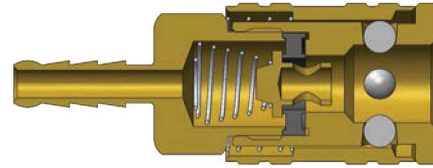


Body Size	M-Series ARO Interchange Plug (Male Threads)							
	Part Detail			Length		Maximum OD		Hex Inch
	Part #	Threads	Material	inch	mm	inch	mm	
1/4"	M2M1	1/8" - 27 NPTF	steel	1.48	37.6	0.58	14.7	1/2"
	M2M2	1/4" - 18 NPTF	steel	1.60	40.6	0.65	16.5	9/16"
	M2M2-B	1/4" - 18 NPTF	brass	1.60	40.6	0.65	16.5	9/16"
	M2M3	3/8" - 18 NPTF	steel	1.80	45.7	0.79	20.1	3/4"
3/8"	M3M3	3/8" - 18 NPTF	steel	1.91	48.5	0.79	20.1	3/4"

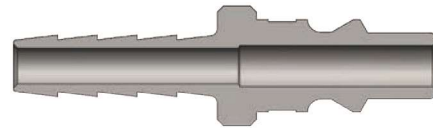


Body Size	M-Series Automatic ARO Interchange Coupler (Standard Hose Barb)							
	Part Detail			Length		Maximum OD		Hex Inch
	Part #	Hose ID	Material	inch	mm	inch	mm	
1/4"	2MS2-PL	1/4"	steel/brass	1.91	48.6	1.06	27.0	13/16"
	2MS2.5-PL	5/16"	steel/brass	2.33	59.1	1.06	27.0	13/16"
	2MS3-PL	3/8"	steel/brass	2.50	63.6	1.06	27.0	13/16"
3/8"	3MS3-PL	3/8"	steel/brass	2.60	66.0	1.26	32.0	1-1/16"

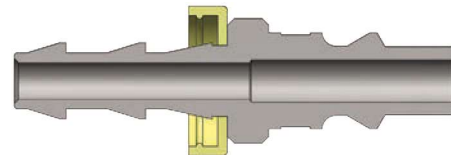
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Body Size	M-Series Manual ARO Interchange Coupler (Standard Hose Barb)							
	Part Detail			Length		Maximum OD		Hex Inch
	Part #	Hose ID	Material	Inch	mm	Inch	mm	
1/4"	2MS2-B	1/4"	brass	2.36	60.0	0.87	22.0	3/4"
	2MS3-B	3/8"	brass	2.76	70.0	0.87	22.0	13/16"



Body Size	M-Series ARO Interchange Plug (Standard Hose Barb)							
	Part Detail			Length		Maximum OD		Hex Inch
	Part #	Hose ID	Material	Inch	mm	Inch	mm	
1/4"	M2S2	1/4"	steel	2.00	50.8	0.56	14.2	-
	M2S3	3/8"	steel	2.00	50.8	0.56	14.2	-
3/8"	M3S3	3/8"	steel	2.25	57.2	0.88	22.4	-



Body Size	M-Series ARO Interchange Plug (Push-Loc Barb)							
	Part Detail			Length		Maximum OD		Hex Inch
	Part #	Hose ID	Material	Inch	mm	Inch	mm	
1/4"	M2B2	1/4"	steel	2.09	53.1	0.69	17.5	-

! 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.