40AC Series Couplings

Tubing Size 1/4" - 3/8" 1/4" Flow Acetal (POM)



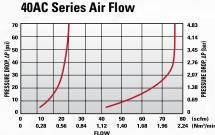
These general purpose 1/4" flow size couplings are produced in a durable natural Acetal (POM) thermoplastic. They feature a thumb-latch release which provides a simple one hand operation. They are available in both valved and non-valved configurations. All 40AC couplings interconnect with all other 40PP and 40CB couplings as well as other similar industry thumb-latch type couplings.

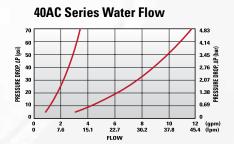
Performance Ratings:

- Operating Pressure: Vacuum to 120psi; (8.3bar)
- Temperature: -40°F to 180°F; (-40°C to 82°C)
- Flow Capacity: 1/4" Size

Materials & Construction:

- Bodies & Terminations: Acetal (POM)
- Internal Valves: Acetal (POM)
- · Internal Valve Springs: 316 Stainless Steel
- O-rings: FDA & NSF Listed Grade Buna-N (others available)
- Thumb-latch: Stainless Steel
- External Springs & Pins: Stainless Steel





FLOW RATES

The data below shows liquid flow rates for LinkTech couplings. Each coupling combination was tested at 70°F (21°C).

C_v Values for 40AC Series Couplings

Specific coupling combination flow rates can be determined by using this formula:

$$Q = C_v \sqrt{\frac{\Delta P}{S}}$$

Q = Flow rate in gallons per minute

 C_v = Average flow rates (see chart)

 ΔP = Pressure drop across coupling (psi)

S = Specific gravity of liquid.

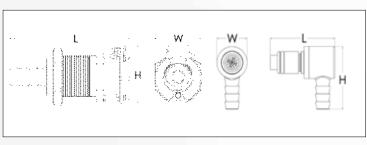
	40ACV-	40AC-										
SOCKETS	PB2-04	PB2-04	PB2-06	PB2-06	PB9-04	PB9-04	PB9-06	PB9-06	PB1-04	PB1-04	PB1-06	PB1-06
40ACV-SB2-04	0.42	0.58	0.45	0.78	0.31	0.38	0.45	0.6	0.43	0.79	0.45	0.75
40AC-S2-04	0.52	0.95	0.7	1	0.38	0.39	0.55	0.87	0.65	0.95	0.65	1
40ACV-SB2-06	0.43	0.63	0.5	0.89	0.33	0.39	0.62	0.5	0.45	0.95	0.5	0.92
40AC-S2-06	0.53	0.95	0.8	1.4	0.38	0.39	0.57	1	0.7	1.4	0.73	1.4
40ACV-SB3-04	0.42	0.58	0.45	0.78	0.31	0.38	0.45	0.6	0.43	0.79	0.45	0.75
40AC-S3-04	0.52	0.95	0.7	1	0.38	0.39	0.55	0.87	0.65	0.95	0.65	1
40ACV-SB3-06	0.43	0.63	0.5	0.89	0.33	0.39	0.62	0.5	0.45	0.95	0.5	0.92
40AC-S3-06	0.53	0.95	0.8	1.4	0.38	0.39	0.57	1	0.7	1.4	0.73	1.4
40ACV-SB1-04	0.41	0.65	0.5	0.81	0.31	0.35	0.48	0.74	0.45	0.8	0.45	8.0
40AC-S1-04	0.56	0.84	0.83	1.4	0.35	0.4	0.58	1.04	0.75	1.4	0.78	1.4
40ACV-SB1-06	0.43	0.7	0.5	1.03	0.3	0.36	0.7	0.48	0.45	0.97	0.48	1
40AC-S1-06	0.57	0.84	0.82	1.4	0.35	0.4	0.6	1.05	0.75	1.4	0.75	1.4

MIN PANEL THICKNESS

.688

SOCKETS	See Drawing	0.5"	0.05"		
PLUGS	0.688"	0.3"	0.05"		
PANE	L NUT HEX SIZE	PANEL NUT THREAD			
	13/16"	11/16" - 24 UNS			

MAX PANEL THICKESS



Reference Dimensions: L = Length, W = Width, H = Height

PANEL OPENING

40AC Series Sockets



MALE THREAD SOCKET

Non-Valved	Valved	Thread Size	Length	Width	Height
40AC-S1-04	40ACV-SB1-04	1/4" NPT	1.15"	.75"	.93"
40AC-S1-04BSPT	40ACV-SB1-04BSPT	1/4" BSPT	1.15"	.75"	.93"
40AC-S1-06	40ACV-SB1-06	3/8" NPT	1.15"	.75"	.93"
40AC-S1-06BSPT	40ACV-SB1-06BSPT	3/8" BSPT	1.15"	.75"	.93"



IN-LINE HOSE BARB SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height
40AC-S2-04	40ACV-SB2-04	1/4" ID	6.4mm ID	1.90"	.75"	.93"
40AC-S2-05	40ACV-SB2-05	5/16" ID	7.9mm ID	1.90"	.75"	.93"
40AC-S2-06	40ACV-SB2-06	3/8" ID	9.5mm ID	1.90"	.75"	.93"



IN-LINE PTF SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height
40AC-S9-04	40ACV-SB9-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.85"	.75"	.93"
40AC-S9-06	40ACV-SB9-06	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	1.95"	.75"	.93"



PANEL MOUNT HOSE BARB SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height
40AC-S3-04	40ACV-SB3-04	1/4" ID	6.4mm ID	1.90"	.75"	.93"
40AC-S3-05	40ACV-SB3-05	5/16" ID	7.9mm ID	1.90"	.75"	.93"
40AC-S3-06	40ACV-SB3-06	3/8" ID	9.5mm ID	1.90"	.75″	.93"



PANEL MOUNT PTF SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height	
40AC-S8-04	40ACV-SB8-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.87"	.75"	.93"	
40AC-S8-06	40ACV-SB8-06	3/8" OD 25" ID	9.5mm OD, 6.4mm ID	1.95"	.75"	.93"	



IN-LINE PUSH-IN SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height
40AC-S17-04	40ACV-SB17-04	1/4" OD	6.4mm OD	1.93"	.75"	.93"



PANEL MOUNT PUSH-IN SOCKET

Non-Valved	Valved	Tube Size	Metric Tube	Length	Width	Height
40AC-S18-04	40ACV-SB18-04	1/4" OD	6.4mm OD	1.93"	.75"	.94"

Tubing Size 1/4" - 3/8" 1/4" Flow Acetal (POM)

40AC Series Plugs



MA	\LE	Tŀ	IREAD	PLUG

Non-Valved	Valved	Thread Size	L(nv/v)	Width	Height
40AC-PB1-04	40ACV-PB1-04	1/4" NPT	1.25"/1.65"	.63"	.63"
40AC-PB1-04BSPT	40ACV-PB1-04BSPT	1/4" BSPT	1.25"/1.65"	.63"	.63"
40AC-PB1-06	40ACV-PB1-06	3/8" NPT	1.25"/1.65"	.75"	.75″
40AC-PB1-06BSPT	40ACV-PB1-06BSPT	3/8" BSPT	1.25"/1.65"	.75"	.75"

40AC Series Plugs

Tubing Size 1/4" - 3/8" 1/4" Flow Acetal (POM)



IN-LINE HOSE BARB PLUG									
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height			
40AC-PB2-04	40ACV-PB2-04	1/4" ID	6.4mm ID	1.25"/1.94"	.70"	.70"			
40AC-PB2-05	40ACV-PB2-05	5/16" ID	7.9mm ID	1.25"/1.94"	.70"	.70"			
40AC-PB2-06	40ACV-PB2-06	3/8" ID	9.5mm ID	1.25"/1.83"	.70"	.70"			



IN-LINE PTF PLUG						
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height
40AC-PB9-04	40ACV-PB9-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.25"/1.89"	.63"	.63"
40AC-PB9-06	40ACV-PB9-06	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	1.40"/1.83"	.63"	.63"



LANET MOON! HOSE RAKR LING							
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height	
40AC-PB3-04	40ACV-PB3-04	1/4" ID	6.4mm ID	1.86"/2.01"	.75"	.75"	
40AC-PB3-05	40ACV-PB3-05	5/16" ID	7.9mm ID	1.91"/2.05"	.75"	.75"	
40AC-PB3-06	40ACV-PB3-06	3/8" ID	9.5mm ID	1.86"/2.01"	.75"	.75"	



PANEL MUUNI PIP PLUG						
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height
40AC-PB8-04	40ACV-PB8-04	1/4" OD, .17" ID	6.4mm OD, 4.3mm ID	1.77"/1.91"	.63"	.80"
40AC-PB8-06	40ACV-PB8-06	3/8" OD, .25" ID	9.5mm OD, 6.4mm ID	1.90"/2.04"	.63"	.80"



ELDOW HOSE DADD DITIC

ELDOW HOSE DAND FLOG						
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height
40AC-PB4-04	40ACV-PB4-04	1/4" ID	6.4mm ID	1.10"/1.35"	.63"	1.30"
40AC-PB4-06	40ACV-PB4-06	3/8" ID	9.5mm ID	1.10"/1.35"	.63"	1.30"



FLROM LIL LTOR						
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height
40ACX-PB10-04	40ACV-PB10-04	1/4"OD, .17" ID	6.4mm OD, 4.3mm ID	1.09"/1.19"	.63"	1.15"
40AC-PB10-06	40ACV-PB10-06	3/8"OD, .25" ID	9.5mm OD, 6.4mm ID	1.22"/1.37"	.63"	1.30"



ELBOW MALE THR	EAD PLUG				
Non-Valved	Valved	Thread Size	L(nv/v)	Width	Height
Λ0ΛC-PR16-0Λ	40ACV DB16 04	1///" NDT	1 20"/1 25"	70"	1 /17"



IN-LINE PUSH-IN PLUG						
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height
40AC-PB17-04	40ACV-PB17-04	1/4"OD	6.4mm OD	1.81"/1.97"	.70"	.70"



PANEL MUUNI PUSH-IN PLUG						
Non-Valved	Valved	Tube Size	Metric Tube	L(nv/v)	Width	Height
40AC-PB18-04	40ACV-PB18-04	1/4"OD	6.4mm OD	1.88"/2.03"	.75"	.75"



END STOP PLUG			
Non-Valved	Length	Width	Height
40AC-PB6	.93"	.63"	.63"

*See Accessories for Push-In fittings on page 44.



Accessories



EXTERNAL PLUG O-RINGS					
Coupling Series	Buna-N Part No.	EPDM Part No.	Viton Part No.		
20 SERIES	C115	1-00823711	1-0089746		
40 SERIES	C116	1-01123711	1-0119746		
50 SERIES	C116	1-01123711	1-0119746		



PANEL MOUNT SEALING GASKET						
Coupling Series	Buna-N Part No.	EPDM Part No.				
20 SERIES	C11040	C11105				
40 SERIES	C11027	C11073				
50 SERIES	C11027	C11073				
50PP SERIES	N/A	C11376				
60 SERIES	N/A	C11416				



PLASTIC PANEL MOUNT NUTS						
Coupling Series	Material	Part No.				
40/50 SERIES	Acetal	C11252				
60PP SERIES	Polypropylene	C11372				
60PS SERIES	Polysulfone	C11398				



PANEL MOUNT NUTS							
Coupling Series	Plated Brass Part No.	316 Stainless Steel Part No.					
20 SERIES	C377	C11085					
40 SERIES	C131	C11044					
50 SERIES	C131	C11044					



PLATED BRASS PTF NUTS (FERRULELESS POLYTUBE FITTING)						
Tube Size	Metric Tube Size	Part No.				
5/32" OD	4.0mm OD	C11031				
1/4" OD	6.4mm OD	C176				
3/8" OD	9.5mm OD	C187				



PUSH-IN COLLET CLIP						
Coupling Series	Description	Part No.				
40AC & 50AC SERIES	Red Collet Clip	PIL250R				



PUSH-IN COLLET COVERS							
Coupling Series	Description	Part No.					
40AC & 50AC SERIES	Red Collet Cover	PIC250R					
40AC & 50AC SERIES	Black Collet Cover	PIC250BL					
40AC & 50AC SERIES	Yellow Collet Cover	PIC250Y					
40AC & 50AC SERIES	Blue Collet Cover	PIC250B					
40AC & 50AC SERIES	Grey Collet Cover	PIC250GRY					
40AC & 50AC SERIES	Green Collet Cover	PIC250GN					

Custom Solutions

LinkTech is committed to our customers and helps them by offering custom designed and manufactured couplings. LinkTech has developed hundreds of custom connection solutions for challenging applications. Our engineering staff is ready to work with your designers to solve application problems beyond the scope of our standard product offering. Whether it is a simple o-ring, color change, or a completely new and unique design, LinkTech offers its customers the best possible solution at the lowest possible cost.



Technical

Flow Size / Latch Type	Material	Valve	Config.	O-ring (std Buna-N)	Туре	Connection Size	Part Options
10 = 1/16" Flow (Twist Lock) 20 = 1/8" Flow (Metal Latch) 40 = 1/4" Flow (Metal Latch) 42 = 3/32" Flow (Dual Tube Metal Latch) 50 = 1/4" Flow (Plastic Latch) 50B = 1/4" Flow (Breakaway Latch) 60 = 3/8" Flow (Plastic Latch) 65 = 1/2" Free Flow (Plastic Latch)	AC = Acetal AL = Aluminum CB = Chrome Plated Brass NB = Nickel Plated Brass RB = Raw Brass GP = Glass Filled Polypro. PP = Polypropylene AB = ABS PS = Polysulfone RD = Radel	V = Valved (default is non-valved) X = No Valve (in Valved Body)	S = Socket P = Plug	B = Buna-N (NSF/Food Grade) V = Viton E = Peroxide Cured EPDM F = Food Grade EPDM S = Silicone K = Kalrez	1 = In Line MNPT 2 = In Line Hose Barb 3 = Panel Mount H.B. 4 = Elbow H.B. 5 = Single Barb H.B. 6 = End Stop 7 = Elbow, Single H.B. 8 = Panel Mount PTF 9 = In Line PTF 10 = Elbow PTF 12 = Panel Mount Male Thread 13 = In Line Female Thread 16 = Elbow MNPT 17 = Push In Term In-line 18 = Push In Term Panel Mt. 19 = Panel Mount Female Thread 20 = Anti Rotate PM Plug H.B. 21 = Anti Rotate PM Plug PTF 22 = Panel Mount H.B. Elbow	01 = 1/16" 02 = 1/8" 03 = 3/16" 04 = 1/4" 05 = 5/16" 06 = 3/8" 08 = 1/2" 10 = 5/8" 12 = 3/4" 16 = 1"	NL = No Latch NN = No Nuts NLN = No Latch/Nu XL = No 0-ring Lub XX = No End Termination

STERILIZATION & DIS	INFECTANT	COMPATIBILITY						
Material	Formalin	Isopropyl Alcohol	Ethyl Alcohol	Ethylene Oxide	Autoclave	E-Beam (50 Kilograys)	Gamma 5 (50 Kilograys)	Dry Heat (250°F)
Acetal	Υ	Υ	Υ	Υ	Υ	N	N	N
ABS	N	N/A	Υ	Υ	N	Υ	Υ	N
Polypropylene	Υ	Υ	Υ	Υ	N	Υ	Υ	N
Polysulfone	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Glass Filled Polypro.	Υ	Υ	Υ	Υ	N	N	N	N
Chrome/Brass	N	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Buna-N/Nitrile	Υ	Υ	Υ	N	N	Υ	Υ	Υ
EPR/EPDM	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Viton/FKM	Y	Υ	Υ	N	N	N	N	Υ
Silicon	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ
Kalrez	Υ	Υ	Υ	Υ	Υ	N	N	Υ

Key: Y = Excellent, recommended, N = Not recommended, N/A = Not applicable

Sterilization Methods:

Disinfectants: Sterilized coupled or uncoupled at 70°F (20°C)

Ethylene Oxide, EtO: Sterilized coupled or uncoupled, up to 5 repetitions, four hours max, 100% EtO at 110°F (43°C)

Autoclave: Sterilize uncoupled only, 30 min. max, 10 repetitions max, 250°F (121°C) max.

Electron Beam (E-Beam): Sterilize coupled or uncoupled, 50 kilograys max cumulative exposure.

GAMMA: Sterilize coupled or uncoupled, 50 kilograys max cumulative exposure.

Dry Heat: Sterilize uncoupled only, 250°F (121°C) 12 hours max.

Regulatory Approvals

The F.D.A. publishes, through the Code of Federal Regulations, standardized criteria which govern the acceptability of materials used in food contact. The U.S. Department of Agriculture publishes similar standards that mirror F.D.A. criteria. Neither agency approves or disapproves products.

With the exception of the 50GP and 65GP Series products, most LinkTech couplings comply with applicable F.D.A and U.S.D.A.

NSF Compliance

NSF International develops and publishes consensual criteria that govern the acceptability of materials and equipment used in food and beverage processing.

With the exception of the 50GP and 65GP Series products, most LinkTech couplings are produced from materials that comply with most NSF standards for potable water and food contact applications.

Questions?

If you have any questions at all concerning our products, compliance and specs, please feel free to call us at 805-339-0055 or visit our website.



Technical

CHEMICAL COMPATIB	ILITY										
Chemical		Polymers			Metals			Elastomers			
	Acetal	ABS	Polypropylene	Polysulfone	Chrome Plated Brass	Aluminum	Buna-N (Nitril)	EPR/EPDM	Fluorocarbon (Viton)	Silicon	KALREZ
Acetic Acid	D	С	В	Α	D	В	D	Α	D	В	Α
Acetone	Α	D	Α	Α	Α	Α	D	Α	D	С	Α
Air	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
Ammonia Anhydrous	D	В	Α	С	Α	Α	В	Α	D	С	Α
Benzene	Α	D	D	D	N/A	В	D	D	Α	D	Α
Carbon Dioxide	Α	В	Α	N/A	Α	В	Α	В	В	В	Α
Chlorine Water	D	Α	D	D	D	D	D	С	Α	D	N/A
Ethanol (Ethyl Alcohol)	Α	Α	Α	Α	Α	В	Α	Α	Α	Α	Α
Ethylene Glycol	В	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α
Gasoline, Unleaded	Α	D	С	Α	Α	Α	В	D	Α	D	Α
Hydrochloric Acid	С	С	В	Α	D	D	D	С	Α	D	Α
Hydrofluric Acid	D	С	С	Α	D	D	D	D	В	D	Α
Isopropyl Alcohol	Α	Α	Α	Α	В	В	В	В	В	Α	Α
Methyl Ethyl Ketone (MEK)	С	D	В	D	Α	В	D	Α	D	D	Α
Methanol	Α	D	Α	Α	Α	Α	Α	Α	D	Α	Α
Oxygen	Α	В	Α	Α	Α	Α	В	Α	Α	Α	Α
Ozone	С	В	В	Α	N/A	В	D	Α	Α	Α	Α
Sodium Hypochlorite	D	N/A	В	Α	D	D	С	В	Α	В	Α
Steam	С	N/A	N/A	N/A	Α	В				С	Α
Sulfuric Acid, Air Free	N/A	В	С	В	С	D	D	D	Α	D	Α
Toluene	С	D	С	С	Α	Α	D	D	С	D	Α
Trichloroethylene	D	D	С	С	В	D	D	D	Α	D	В
Water, Fresh	Α	Α	Α	Α	С	В	Α	Α	В	Α	Α

Key: A = Excellent - no effect, B = Good - little or no effect, C = Fair - some effect, D = Not recommended, N/A = Not available.

Chemical Compatibility
Chemicals can affect the strength, appearance, color, dimensions, and weight of plastics. Because many factors affect the chemical resistance of a given material it is the customer's responsibility to test LinkTech's couplings in their own application conditions. Please Contact LinkTech for further assistance with your application needs.

COUPLING PERFORMANCE RATINGS							
Series	Coupling Material	O-ring Material	Pressure Rating	Temp. Rating			
10AC 1/16" Flow	Acetal	Buna-N	Vacuum to 100psi	-40°F to 180°F			
10PP 1/16" Flow	Polypropylene	EPDM	Vacuum to 100psi	32°F to 180°F			
20AC 1/8" Flow	Acetal	Buna-N	Vacuum to 120psi	-40°F to 180F			
20PP 1/8" Flow	Polypropylene	EPDM	Vacuum to 120psi	32°F to 160°F			
20CB 1/8" Flow	Chrome/Brass	Buna-N	Vacuum to 250psi	-40°F to 180°F			
40AC 1/4" Flow	Acetal	Buna-N	Vacuum to 120psi	-40°F to 180°F			
40PP 1/4" Flow	Polypropylene	EPDM	Vacuum to 120psi	32°F to 160°F			
40CB 1/4" Flow	Chrome/Brass	Buna-N	Vacuum to 250psi	-40°F to 180°F			
42AB 3/32" Flow	ABS	Buna-N	Vacuum to 120psi	-40°F to 180°F			
50AC 1/4" Flow	Acetal	Buna-N	Vacuum to 120psi	-40°F to 180°F			
50PP 1/4" Flow	Polypropylene	EPDM	Vacuum to 100psi	32°F to 160°F			
50BAC 1/4" Flow	Acetal	Buna-N	Opsi to 20psi	-40°F to 180°F			
50GP 1/4" Flow	Glass Filled Polypropylene	EPDM	Vacuum to 120psi	32°F to 180°F			
60PP 3/8" Flow	Polypropylene	EPDM	Vacuum to 60psi	32°F to 160°F			
60PS 3/8" Flow	Polysulfone	EPDM	Vacuum to 125psi	-40°F to 280°F			
65GP 1/2" Flow	Glass Filled Polypropylene	EPDM	Vacuum to 120psi	32°F to 180°F			