

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.



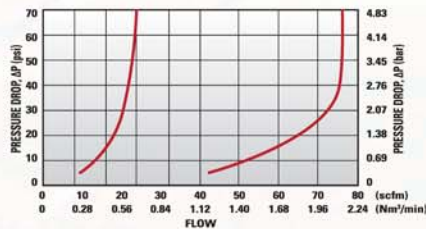
Performance Ratings:

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

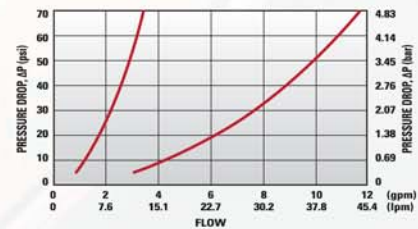
Materials & Construction:

- 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

40AC Series Air Flow



40AC Series Water Flow



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

| SOCKETS | 40ACV-PB2-04 | 40AC-PB2-04 | 40ACV-PB2-06 | 40AC-PB2-06 | 40ACV-PB9-04 | 40AC-PB9-04 | 40ACV-PB9-06 | 40AC-PB9-06 | 40ACV-PB1-04 | 40AC-PB1-04 | 40ACV-PB1-06 | 40AC-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 | 0.8 |
| 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 |

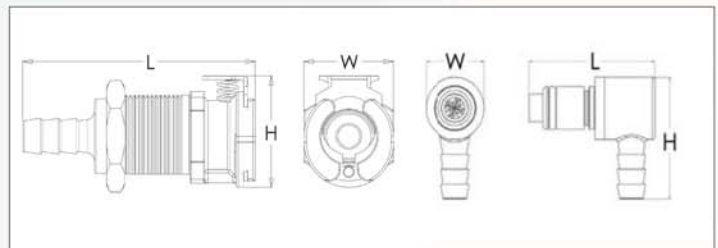
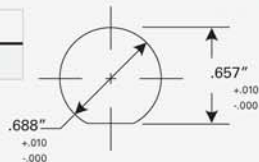
Specific coupling combination flow rates can be determined by using this formula:

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

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.

| | PANEL OPENING | MAX PANEL THICKNESS | MIN PANEL THICKNESS |
|---------|---------------|---------------------|---------------------|
| SOCKETS | See Drawing | 0.5" | 0.05" |
| PLUGS | 0.688" | 0.3" | 0.05" |

| PANEL NUT HEX SIZE | PANEL NUT THREAD |
|--------------------|------------------|
| 13/16" | 11/16" - 24 UNS |



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


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

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

|  | | MALE THREAD 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" | | |


|  | | PANEL MOUNT HOSE BARB PLUG | | | | | | |
|---|--------------|-----------------------------------|-------------|-------------|-------|--------|--|--|
| 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 MOUNT PTF 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" | | |

|  | | ELBOW HOSE BARB PLUG | | | | | | |
|---|--------------|-----------------------------|-------------|-------------|-------|--------|--|--|
| 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" | | |

|  | | ELBOW PTF PLUG | | | | | | |
|---|---------------|-----------------------|--------------------|-------------|-------|--------|--|--|
| 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 THREAD PLUG | | | | | | |
|---|---------------|-------------------------------|-------------|-------|--------|--|--|--|
| Non-Valved | Valved | Thread Size | L(nv/v) | Width | Height | | | |
| 40AC-PB16-04 | 40ACV-PB16-04 | 1/4" NPT | 1.20"/1.35" | .70" | 1.47" | | | |

|  | | 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 MOUNT 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.

