



28-1 & 29 Series

Compact, Light Weight
Non-Spill Couplings

Compact Couplings for Applications Requiring Minimal Air Inclusion or Spillage

Both 28-1 and 29 Series are non-spill, push-to-connect couplings designed to fit in confined spaces. Their small envelope size and aluminum material option results in a compact, lightweight connection. The non-spill valving has minimal spillage and air inclusion while providing maximum flow with low pressure drop. The 28-1 Series is rated for pressures up to 1000 psi (69 bar) and is available in 1/4"-2" body sizes. The 29 Series is rated for pressures up to 5500 psi (379 bar) and is available in 1/8"-1-1/4" body sizes. Both products have stainless steel and aluminum material options.



28-1 Series
for pressures to 1000 psi (69 bar)

29 Series
for pressures to 5500 psi (379 bar)

Contact Information:

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28-1 Series Features:

- Low pressure drop
- Push-to-connect
- 1/4" - 2" size range
- Lightweight compact design
- Wide range of seal materials
- Aluminum or stainless construction
- Visual indicator confirms full connection

29 Series Features:

- Low pressure drop
- Push-to-connect
- 1/8" - 1-1/4" size range
- High pressure design
- Wide range of seal materials
- Aluminum or stainless construction



ENGINEERING YOUR SUCCESS.

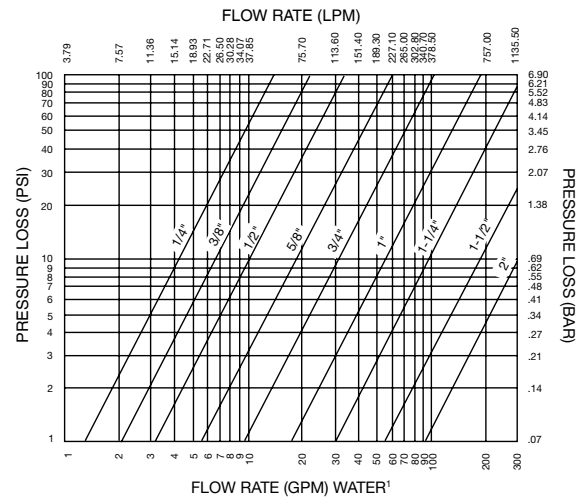
28-1 Series Performance Data



Typical Applications Include:

- Low pressure hydraulic systems
- High purity systems
- Fuel systems
- Cooling systems for electronics

Pressure Loss vs. Flow



¹ Pressure loss vs. flow is in water with specific gravity of 1.0. For fluids with sg of .85 multiply by 1.58; for fluids with sg of .83 multiply by 1.60. Temperature 100°F (55°C).
NOTE: Gallon shown are in U.S. gallons.

Pressure Ratings

| Size | Aluminum | | Stainless Steel | |
|--------|------------------|-----|------------------|-----|
| | Working Pressure | | Working Pressure | |
| | PSI | Bar | PSI | Bar |
| 1/4" | 1000 | 69 | 1000 | 69 |
| 3/8" | 1000 | 69 | 1000 | 69 |
| 1/2" | 1000 | 69 | 1000 | 69 |
| 5/8" | 1000 | 69 | 1000 | 69 |
| 3/4" | 1000 | 69 | 1000 | 69 |
| 1" | 1000 | 69 | 1000 | 69 |
| 1-1/4" | 600 | 41 | 600 | 41 |
| 1-1/2" | 600 | 41 | 600 | 41 |
| 2" | 600 | 41 | 600 | 41 |

Pressure ratings were established under static pressure conditions. Therefore, pressure ratings for any given flow, pressure surge and/or vibration may vary these ratings.
 Proof pressure = 1.5 x working pressure
 Burst pressure = 2.5 x working pressure

Air Inclusion on Connect, Spillage on Disconnect

| Size | Air Inclusion* | | Spillage | |
|--------|-----------------|------|-----------------|------|
| | in ³ | cc | in ³ | cc |
| 1/4" | .003 | .05 | .001 | .01 |
| 3/8" | .011 | .18 | .002 | .03 |
| 1/2" | .017 | .28 | .002 | .04 |
| 5/8" | .019 | .31 | .008 | .13 |
| 3/4" | .029 | .48 | .009 | .15 |
| 1" | .049 | .80 | .018 | .30 |
| 1-1/4" | .096 | 1.57 | .024 | .40 |
| 1-1/2" | .122 | 2.00 | .043 | .70 |
| 2" | .183 | 3.00 | .061 | 1.00 |

*NOTE: Air inclusion at 0 psi (0 bar) internal pressure; spillage at 15 psi (1 bar) internal pressure.

28-1 Series Dimensions and Weights



| Size | Coupler | | | | | | | | Connected Length | | Nipple | | | | | |
|--------|---------|-------|------|-------|-------------------|--------------------|--------|--------|------------------|--------|--------|-------|-------------------|--------------------|--------|--------|
| | A | | D | | E | | Weight | | in | mm | B | | F | | Weight | |
| | in | mm | in | mm | in | mm | lb | g | | | in | mm | in | mm | lb | g |
| 1/4" | 1.25 | 31.75 | .88 | 22.35 | .75 | 19.05 | .05 | 22.68 | 1.80 | 45.72 | 1.10 | 27.94 | .75 | 19.05 | .02 | 4.54 |
| 3/8" | 1.44 | 36.58 | 1.12 | 28.45 | 1.00 | 25.40 | .11 | 49.90 | 2.02 | 51.31 | 1.20 | 30.48 | 1.00 | 25.40 | .05 | 9.07 |
| 1/2" | 1.61 | 40.89 | 1.34 | 34.04 | 1.13 | 28.70 | .17 | 77.11 | 2.15 | 54.61 | 1.25 | 31.75 | 1.13 | 28.70 | .06 | 27.22 |
| 5/8" | 1.70 | 43.18 | 1.58 | 40.13 | 1.38 | 35.05 | .23 | 104.33 | 2.45 | 62.23 | 1.50 | 38.10 | 1.38 | 35.05 | .14 | 63.50 |
| 3/4" | 2.05 | 52.07 | 1.80 | 45.72 | 1.50 | 38.10 | .36 | 163.29 | 2.89 | 73.41 | 1.71 | 43.43 | 1.50 | 38.10 | .15 | 68.04 |
| 1" | 2.70 | 68.58 | 2.32 | 58.93 | 2.00 | 50.80 | .74 | 335.66 | 3.72 | 94.49 | 2.19 | 55.63 | 2.00 | 50.80 | .29 | 131.54 |
| 1-1/4" | 2.56 | 65.02 | 2.63 | 66.80 | 2.25 | 57.15 | .76 | 344.73 | 3.51 | 89.15 | 2.16 | 54.86 | 2.25 | 57.15 | .30 | 136.08 |
| 1-1/2" | 3.03 | 76.96 | 2.96 | 75.18 | 2.63 [†] | 66.80 [†] | 1.33 | 603.28 | 3.75 | 95.25 | 2.16 | 54.86 | 2.63 [†] | 66.80 [†] | .33 | 149.69 |
| 2" | 3.55 | 90.17 | 3.92 | 99.57 | 3.25 [†] | 82.55 [†] | 1.97 | 893.58 | 4.73 | 120.14 | 2.84 | 72.14 | 3.25 [†] | 82.55 [†] | .36 | 163.29 |

[†]Weights are for aluminum. For Stainless Steel multiply aluminum weight by 2.7. All dimensions and weights are for reference only and are subject to change without notice. Dimension tolerances: A, B, D, E & F ± .03 in. (.76 mm); Connected length ± .06 in. (± 1.52 mm). [†]Two wrench flats.

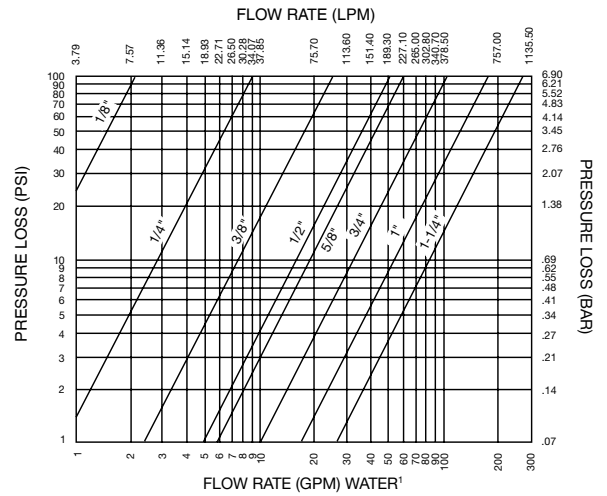
29 Series Performance Data



Typical Applications Include:

- High pressure hydraulic systems
- High purity systems
- Fuel systems
- Cooling systems for electronics

Pressure Loss vs. Flow



¹ Pressure loss vs. flow is in water with specific gravity of 1.0. For fluids with sg of .85 multiply by 1.58; for fluids with sg of .83 multiply by 1.60. Temperature 100°F (55°C).
NOTE: Gallon shown are in U.S. gallons.

Pressure Ratings

| Size | Aluminum | | Stainless Steel | |
|-------------|------------------|-----|------------------|-----|
| | Working Pressure | | Working Pressure | |
| | PSI | Bar | PSI | Bar |
| 1/8" | 4800 | 331 | 5500 | 379 |
| 1/4" | 3200 | 221 | 3800 | 262 |
| 3/8" | 3000 | 207 | 3200 | 221 |
| 1/2" | 2200 | 152 | 3000 | 207 |
| 1/2" x 5/8" | 2200 | 152 | 3000 | 207 |
| 3/4" | 1200 | 83 | 2000 | 138 |
| 1" | 1000 | 69 | 1500 | 103 |
| 1-1/4" | 750 | 52 | 1000 | 69 |

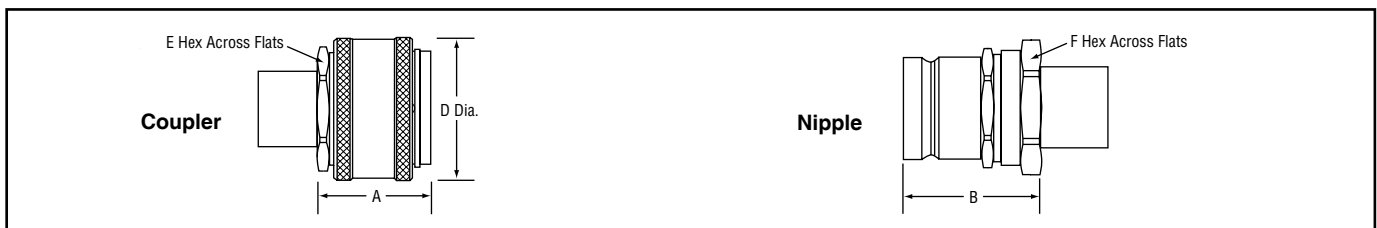
Pressure ratings were established under static pressure conditions. Therefore, pressure ratings for any given flow, pressure surge and/or vibration may vary these ratings.
 Proof pressure = 1.5 x working pressure
 Burst pressure = 2.5 x working pressure

Air Inclusion on Connect, Spillage on Disconnect

| Size | Air Inclusion* | | Spillage | |
|-------------|-----------------|-----|-----------------|------|
| | in ³ | cc | in ³ | cc |
| 1/8" | .002 | .03 | <.001 | <.02 |
| 1/4" | .002 | .03 | <.001 | <.02 |
| 3/8" | .002 | .03 | <.001 | <.02 |
| 1/2" | .012 | .19 | .007 | .12 |
| 1/2" x 5/8" | .012 | .19 | .007 | .12 |
| 3/4" | .008 | .13 | .005 | .08 |
| 1" | .008 | .13 | .005 | .09 |
| 1-1/4" | .012 | .19 | .007 | .12 |

*NOTE: Air inclusion at 0 psi (0 bar) internal pressure; spillage at 60 psi (4 bar) for 1/8" and 15 psi (1 bar) internal pressure for 1/4" through 1-1/4".

29 Series Dimensions and Weights



| Size | Coupler | | | | | | | | Connected Length | | Nipple | | | | | |
|-------------|---------|-------|------|-------|-------------------|--------------------|--------|--------|------------------|-------|--------|-------|-------------------|--------------------|--------|--------|
| | A | | D | | E | | Weight | | | | B | | F | | Weight | |
| | in | mm | in | mm | in | mm | lb | g | in | mm | in | mm | lb | g | | |
| 1/8" | 1.20 | 30.48 | .88 | 22.35 | .75 | 19.05 | .05 | 22.68 | 1.71 | 43.43 | 1.07 | 27.18 | .69 | 17.53 | .03 | 13.61 |
| 1/4" | 1.31 | 33.27 | 1.38 | 35.05 | 1.13 | 28.70 | .13 | 58.97 | 2.01 | 51.05 | 1.30 | 33.02 | 1.13 | 28.70 | .07 | 31.75 |
| 3/8" | 1.57 | 39.88 | 1.63 | 41.40 | 1.25 | 31.75 | .20 | 90.72 | 2.36 | 59.94 | 1.48 | 37.59 | 1.38 | 35.05 | .10 | 45.36 |
| 1/2" | 1.53 | 38.86 | 1.94 | 49.28 | 1.50 | 38.10 | .42 | 190.51 | 2.64 | 67.06 | 1.76 | 44.70 | 1.63 | 41.40 | .23 | 104.33 |
| 1/2" x 5/8" | 1.53 | 38.86 | 1.94 | 49.28 | 1.50 | 38.10 | .42 | 190.51 | 2.64 | 67.06 | 1.76 | 44.70 | 1.63 | 41.40 | .23 | 104.33 |
| 3/4" | 1.89 | 48.01 | 2.35 | 59.69 | 1.88 | 47.75 | .49 | 222.26 | 2.81 | 71.37 | 2.09 | 53.09 | 1.88 | 47.75 | .31 | 140.61 |
| 1" | 2.45 | 62.23 | 2.44 | 61.98 | 2.13 | 54.10 | .70 | 317.51 | 3.60 | 91.44 | 2.50 | 63.50 | 2.13 | 54.10 | .36 | 163.29 |
| 1-1/4" | 2.52 | 64.01 | 2.88 | 73.15 | 2.69 [†] | 68.33 [†] | .86 | 390.09 | 3.64 | 95.46 | 2.90 | 73.66 | 2.75 [†] | 69.85 [†] | .71 | 322.05 |

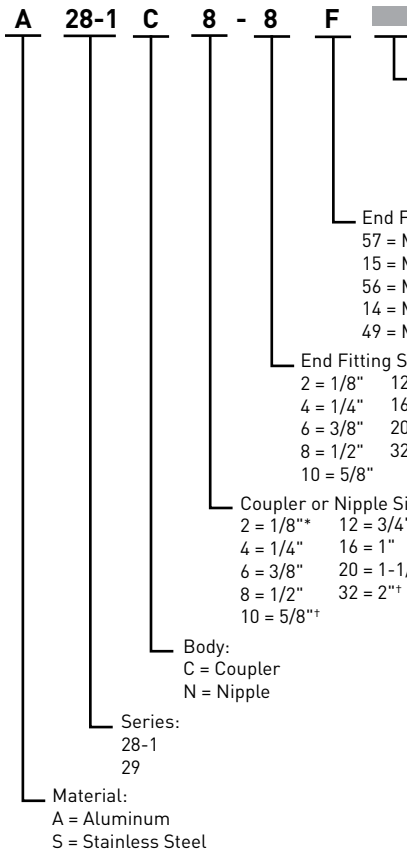
[†]Weights are for aluminum. For Stainless Steel multiply aluminum weight by 2.7. All dimensions and weights are for reference only and are subject to change without notice. Dimension tolerances: A, B, D, E & F ± .03 in. (.76 mm); Connected length ± .06 in. (± 1.52 mm). [†]Two wrench flats.

28-1 and 29 Series End Fitting Configurations

| Size | G-57 | | G-EB | | Wt. ¹ | | H | | Wt. ¹ | | J | | Wt. ¹ | | K | | Wt. ¹ | | M | | (Max) Wt. ¹ | | T | | Wt. ¹ | |
|--------|------|-------|------|-------|------------------|-------|------|-------|------------------|-------|------|-------|------------------|-------|-----|-------|------------------|-------|------|-------|------------------------|--------|------|-------|------------------|-------|
| | in | mm | in | mm | lb | g | in | mm | lb | g | in | mm | lb | g | in | mm | lb | g | in | mm | lb | g | in | mm | lb | g |
| 1/8" | .95 | 24.13 | 1.14 | 28.96 | .01 | 4.53 | .86 | 21.84 | .01 | 4.53 | .45 | 11.43 | .01 | 4.53 | .38 | 9.65 | .01 | 4.53 | .56 | 14.22 | .01 | 4.53 | .38 | 9.65 | .01 | 4.53 |
| 1/4" | 1.05 | 26.67 | 1.23 | 31.24 | .01 | 4.53 | .97 | 24.64 | .01 | 4.53 | .55 | 13.97 | .01 | 4.53 | .45 | 11.43 | .01 | 4.53 | .78 | 19.81 | .02 | 9.07 | .56 | 14.22 | .01 | 4.53 |
| 3/8" | 1.13 | 28.70 | 1.31 | 33.27 | .01 | 4.53 | 1.02 | 25.91 | .01 | 4.53 | .56 | 14.22 | .01 | 4.53 | .47 | 11.94 | .01 | 4.53 | .88 | 22.35 | .04 | 18.14 | .56 | 14.22 | .01 | 4.53 |
| 1/2" | 1.28 | 32.51 | 1.47 | 37.34 | .03 | 13.61 | 1.16 | 29.46 | .02 | 9.07 | .66 | 16.76 | .01 | 4.53 | .56 | 14.22 | .01 | 4.53 | 1.05 | 26.67 | .08 | 36.29 | .75 | 19.05 | .03 | 13.61 |
| 5/8" | 1.42 | 36.07 | 1.61 | 40.89 | .04 | 18.14 | 1.30 | 33.02 | .03 | 13.61 | .76 | 19.30 | .02 | 9.07 | .63 | 16.00 | .02 | 9.07 | 1.05 | 26.67 | .11 | 49.90 | - | - | .03 | 13.61 |
| 3/4" | 1.59 | 40.39 | 1.78 | 45.21 | .06 | 27.22 | 1.41 | 35.81 | .05 | 22.68 | .86 | 21.84 | .03 | 13.61 | .69 | 17.53 | .03 | 13.61 | 1.40 | 35.56 | .13 | 58.97 | .75 | 19.05 | .03 | 13.61 |
| 1" | 1.59 | 40.39 | 1.78 | 45.21 | .09 | 40.82 | 1.41 | 35.81 | .07 | 31.75 | .91 | 23.11 | .05 | 22.68 | .69 | 17.53 | .03 | 13.61 | 1.22 | 30.99 | .19 | 86.18 | .94 | 23.88 | .06 | 27.22 |
| 1-1/4" | 1.64 | 41.66 | 1.83 | 46.48 | .14 | 63.50 | 1.41 | 35.81 | .12 | 54.43 | .96 | 24.38 | .08 | 36.29 | .69 | 17.53 | .06 | 27.22 | 1.63 | 41.40 | .29 | 131.54 | .97 | 24.64 | .09 | 40.82 |
| 1-1/2" | 1.66 | 42.16 | 1.84 | 46.74 | .17 | 77.11 | 1.41 | 28.19 | .13 | 58.97 | 1.08 | 27.43 | .11 | 49.90 | .69 | 17.53 | .07 | 31.75 | 1.65 | 41.91 | .40 | 181.44 | 1.00 | 25.40 | .11 | 49.90 |
| 2" | 1.94 | 49.28 | 2.12 | 53.85 | .21 | 95.25 | 1.61 | 40.89 | .19 | 86.18 | 1.33 | 33.78 | .15 | 68.04 | .69 | 17.53 | .10 | 45.36 | 1.90 | 48.26 | .56 | 254.01 | 1.03 | 26.16 | .16 | 72.57 |

¹Weights are for aluminum. For Stainless Steel multiply aluminum weight by 2.7.

Ordering Information



28-1 Series Dust Caps

| Size | Coupler | Nipple |
|--------|-------------|-------------|
| 1/4" | A28-1DCC-4 | A28-1DCN-4 |
| 3/8" | A28-1DCC-6 | A28-1DCN-6 |
| 1/2" | A28-1DCC-8 | A28-1DCN-8 |
| 5/8" | A28-1DCC-10 | A28-1DCN-10 |
| 3/4" | A28-1DCC-12 | A28-1DCN-12 |
| 1" | A28-1DCC-16 | A28-1DCN-16 |
| 1-1/4" | A28-1DCC-20 | A28-1DCN-20 |
| 2" | A28-1DCC-32 | A28-1DCN-32 |

Standard Material = Aluminum
 Replace "A" in part number above with "S" for stainless steel

29 Series Dust Caps

| Size | Coupler | Nipple | Pressure Cap for Nipple |
|--------|----------|----------|-------------------------|
| 1/8" | ADP29-2 | ADC29-2 | APC29-2 |
| 1/4" | ADP29-4 | ADC29-4 | APC29-4 |
| 3/8" | ADP29-6 | ADC29-6 | APC29-6 |
| 1/2" | ADP29-8 | ADC29-8 | APC29-8 |
| 3/4" | ADP29-12 | ADC29-12 | APC29-12 |
| 1" | ADP29-16 | ADC29-16 | APC29-16 |
| 1-1/4" | ADP29-20 | ADC29-20 | APC29-20 |

* Available 29 only
 † Available 28-1 only
 ** Standard seal in 28-1 Series Nitrile (AMS 3215) - no letter designation required
 Standard seal in 29 Series Nitrile (MIL-P-25732) - no letter designation required
 For other seal compounds, consult QCD

Note: Not all configurations are standard product offering.
 Contact QCD for price and delivery.

