

# Snap-tite 28-1 & 29 Series

Compact, Light Weight  
Non-Spill Quick 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 69 bar and is available in 1/4" - 2" body sizes. The 29 Series is rated for pressures up to 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**  
up to 69 bar



**29 Series**  
up to 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

### Typical Applications

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

## 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 steel construction

### Typical Applications

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

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# 28-1 Series

## Performance Data

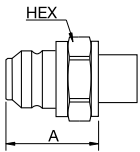
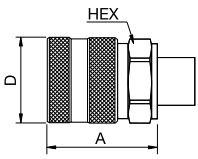


### Dimensions and Weights

Size	A mm	D (Ø) mm	HEX mm	Weight g
1/4"	31,75	22,35	19,05	22,68
3/8"	36,58	28,45	25,40	49,90
1/2"	40,89	34,04	28,70	77,11
5/8"	43,18	40,13	35,05	104,33
3/4"	52,07	45,72	38,10	163,29
1"	68,58	58,93	50,80	335,66
1 1/4"	65,02	66,80	57,15	344,73
1 1/2"	76,96	75,18	66,80 <sup>1</sup>	603,28
2"	90,17	99,57	82,55 <sup>1</sup>	893,58

Size	A mm	D (Ø) mm	HEX mm	Weight g
1/4"	27,94		19,05	4,54
3/8"	30,48		25,40	9,07
1/2"	31,75		28,70	27,22
5/8"	38,10		35,05	63,50
3/4"	43,43		38,10	68,04
1"	55,63		50,80	131,54
1 1/4"	54,86		57,15	136,08
1 1/2"	54,86		66,80 <sup>1</sup>	149,69
2"	72,14		82,55 <sup>1</sup>	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, D & E ±0,76 mm.

<sup>1</sup> Two wrench flats.

### Total Length Connected

Size	Connected Length mm
1/4"	45,72
3/8"	51,31
1/2"	54,61
5/8"	62,23
3/4"	73,41
1"	94,49
1 1/4"	89,15
1 1/2"	95,25
2"	120,14

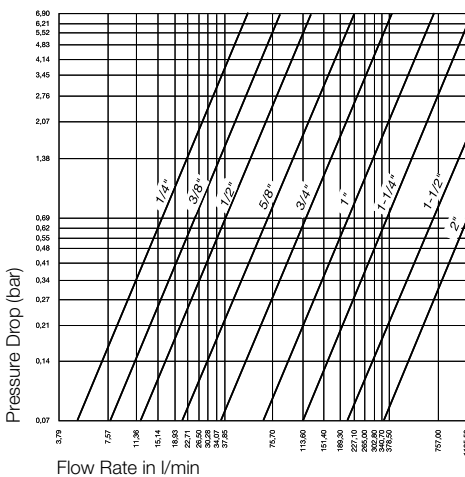
Dimension tolerances connected length ±1.52 mm.

### Air Inclusion on Connect, Spillage on Disconnect

Size	Air Inclusion <sup>1</sup>		Spillage	
	in <sup>3</sup>	cc	in <sup>3</sup>	cc
1/4"	0,003	0,05	0,001	0,01
3/8"	0,011	0,18	0,002	0,03
1/2"	0,017	0,28	0,002	0,04
5/8"	0,019	0,31	0,008	0,13
3/4"	0,029	0,48	0,009	0,15
1"	0,049	0,80	0,018	0,30
1 1/4"	0,096	1,57	0,024	0,40
1 1/2"	0,122	2,00	0,043	0,70
2"	0,183	3,00	0,061	1,00

<sup>1</sup>NOTE: Air inclusion at 0 bar internal pressure; spillage at 1 bar internal pressure.

### Flow Chart



<sup>1</sup> Pressure loss vs. flow is in water with specific gravity of 1,0. For fluids with sg of 0,85 multiply by 1,58; for fluids with sg of 0,83 multiply by 1,60. Temperature 55°C.

### Pressure Ratings

Size	Aluminum Working Pressure		Stainless Steel Working Pressure	
	PSI	Bar	PSI	Bar
1/4"	1.000	69	1.000	69
3/8"	1.000	69	1.000	69
1/2"	1.000	69	1.000	69
5/8"	1.000	69	1.000	69
3/4"	1.000	69	1.000	69
1"	1.000	69	1.000	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

# 29 Series

## Performance Data

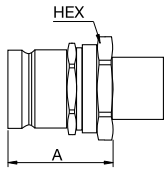
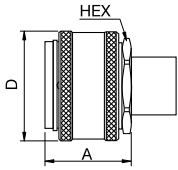


### Dimensions and Weights

Size	A mm	D (Ø) mm	HEX mm	Weight g
1/8"	30,48	22,35	19,05	22,68
1/4"	33,27	35,05	28,70	58,97
3/8"	39,88	41,40	31,75	90,72
1/2"	38,86	49,28	38,10	190,51
1/2" x 5/8"	38,86	49,28	38,10	190,51
3/4"	48,01	59,69	47,75	222,26
1"	62,23	61,98	54,10	317,51
1 1/4"	64,01	73,15	68,33 <sup>1</sup>	390,09

Size	A mm	D (Ø) mm	HEX mm	Weight g
1/8"	27,18		17,53	13,61
1/4"	33,02		28,70	31,75
3/8"	37,59		35,05	45,36
1/2"	44,70		41,40	104,33
1/2" x 5/8"	44,70		41,40	104,33
3/4"	53,09		47,75	140,61
1"	63,50		54,10	163,29
1 1/4"	73,66		69,85 <sup>1</sup>	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, D & E ±0,76 mm

<sup>1</sup> Two wrench flats.

### Total Length Connected

Size	Connected Length mm
1/8"	43,43
1/4"	51,05
3/8"	59,94
1/2"	67,06
1/2" x 5/8"	67,06
3/4"	71,37
1"	91,44
1 1/4"	95,46

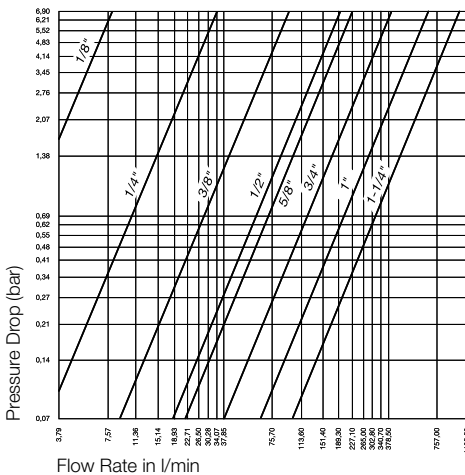
Dimension tolerances connected length ±1,52 mm.

### Air Inclusion on Connect, Spillage on Disconnect

Size	Air Inclusion <sup>1</sup>		Spillage	
	in <sup>3</sup>	cc	in <sup>3</sup>	cc
1/8"	0,002	0,03	< 0,001	< 0,02
1/4"	0,002	0,03	< 0,001	< 0,02
3/8"	0,002	0,03	< 0,001	< 0,02
1/2"	0,012	0,19	0,007	0,12
1/2" x 5/8"	0,012	0,19	0,007	0,12
3/4"	0,008	0,13	0,005	0,08
1"	0,008	0,13	0,005	0,09
1 1/4"	0,012	0,19	0,007	0,12

<sup>1</sup>NOTE: Air inclusion at 0 bar internal pressure; spillage at 4 bar for 1/8" and 1 bar internal pressure for 1/4" through 1 1/4".

### Flow Chart



<sup>1</sup> Pressure loss vs. flow is in water with specific gravity of 1,0. For fluids with sg of 0,85 multiply by 1,58; for fluids with sg of 0,83 multiply by 1,60. Temperature 55°C.

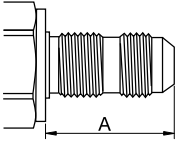
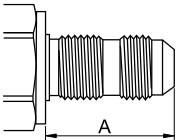
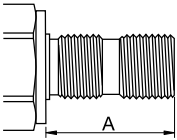
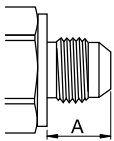
### Pressure Ratings

Size	Aluminum Working Pressure		Stainless Steel Working Pressure	
	PSI	Bar	PSI	Bar
1/8"	4.800	331	5.500	379
1/4"	3.200	221	3.800	262
3/8"	3.000	207	3.200	221
1/2"	2.200	152	3.000	207
1/2" x 5/8"	2.200	152	3.000	207
3/4"	1.200	83	2.000	138
1"	1.000	69	1.500	103
1 1/4"	750	52	1.000	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.

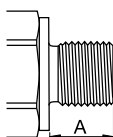
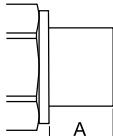
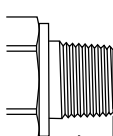
Proof pressure = 1.5 x working pressure  
Burst pressure = 2.5 x working pressure

## 28-1 and 29 Series End Fitting Configurations

	Size	A mm	Weight g
 <p>Male Thread 57 MS33657 Bulkhead Flared</p>	1/8"	24,13	4,53
	1/4"	26,67	4,53
	3/8"	28,70	4,53
	1/2"	32,51	13,61
	5/8"	36,07	18,14
	3/4"	40,39	27,22
	1"	40,39	40,82
	1 1/4"	41,66	63,50
	1 1/2"	42,16	77,11
	2"	49,28	95,25
 <p>Male Thread EB SAE Bulkhead</p>	1/8"	28,96	4,53
	1/4"	31,24	4,53
	3/8"	33,27	4,53
	1/2"	37,34	13,61
	5/8"	40,89	18,14
	3/4"	45,21	27,22
	1"	45,21	40,82
	1 1/4"	46,48	63,50
	1 1/2"	46,74	77,11
	2"	53,85	95,25
 <p>Male Thread 15 MS33515 Bulkhead Flareless</p>	1/8"	21,84	4,53
	1/4"	24,64	4,53
	3/8"	25,91	4,53
	1/2"	29,46	9,07
	5/8"	33,02	13,61
	3/4"	35,81	22,68
	1"	35,81	31,75
	1 1/4"	35,81	54,43
	1 1/2"	28,19	58,97
	2"	40,89	86,18
 <p>Male Thread 56 MS33656 Flared EM SAE</p>	1/8"	11,43	4,53
	1/4"	13,97	4,53
	3/8"	14,22	4,53
	1/2"	16,76	4,53
	5/8"	19,30	9,07
	3/4"	21,84	13,61
	1"	23,11	22,68
	1 1/4"	24,38	36,29
	1 1/2"	27,43	49,90
	2"	33,78	68,04

Weights are for aluminum. For Stainless Steel multiply aluminum weight by 2,7.

## 28-1 and 29 Series End Fitting Configurations

	Size	A mm	Weight g
 <p>Male Thread 14 MS33514 Flareless</p>	1/8"	9,65	4,53
	1/4"	11,43	4,53
	3/8"	11,94	4,53
	1/2"	14,22	4,53
	5/8"	16,00	9,07
	3/4"	17,53	13,61
	1"	17,53	13,61
	1 1/4"	17,53	27,22
	1 1/2"	17,53	31,75
	2"	17,53	45,36
 <p>Female Thread F NPTF RP British Parallel BS 2779 49 O-Ring Boss MS33649</p>	1/8"	14,22	4,53
	1/4"	19,81	9,07
	3/8"	22,35	18,14
	1/2"	26,67	36,29
	5/8"	26,67	49,90
	3/4"	35,56	58,97
	1"	30,99	86,18
	1 1/4"	41,40	131,54
	1 1/2"	41,91	181,44
	2"	48,26	254,01
 <p>Male Thread M NPT</p>	1/8"	9,65	4,53
	1/4"	14,22	4,53
	3/8"	14,22	4,53
	1/2"	19,05	13,61
	5/8"	-	13,61
	3/4"	19,05	13,61
	1"	23,88	27,22
	1 1/4"	24,64	40,82
	1 1/2"	25,40	49,90
	2"	26,16	72,57

Weights are for aluminum. For Stainless Steel multiply aluminum weight by 2,7.

### 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

# Ordering Information

<b>A</b>	<b>28-1</b>	<b>C</b>	<b>8</b>	<b>-</b>	<b>8</b>	<b>F</b>
<p><b>Material:</b> A = Aluminum S = Stainless Steel</p>		<p><b>Body:</b> C = Coupling N = Nipple</p>	<p><b>Coupling or Nipple Body Size:</b> 2 = 1/8"<sup>1</sup>    10 = 5/8"<sup>2</sup> 4 = 1/4"    12 = 3/4" 6 = 3/8"    16 = 1" 8 = 1/2"    20 = 1 1/4" 32 = 2"<sup>2</sup></p>		<p><b>End Fitting Size:</b> 2 = 1/8"    10 = 5/8" 4 = 1/4"    12 = 3/4" 6 = 3/8"    16 = 1" 8 = 1/2"    20 = 1 1/4" 32 = 2"</p>	
<p><b>Series:</b> 28-1 29</p>		<p><b>End Fitting Type:</b> 57 = MS33657 Bulkhead 15 = MS33515 Bulkhead 56 = MS33656 37° Male Flare 14 = MS33514 Male 49 = MS33649 Female F = Female NPTF RP = Female British Parallel BS 2779 M = Male NPT EM = SAE Male 37° Flare EB = SAE Bulkhead</p>		<p><b>Seals<sup>3</sup>:</b> A = NBR (AMS 3215) V = FKM JF = NBR (MIL-P-5315) M = NBR (MIL-P-25732) E = EPDM</p>		

<sup>1</sup> Available 29 only.  
<sup>2</sup> Available 28-1 only.  
<sup>3</sup> 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, contact your Parker sales team.

**Notes:**

- Not all configurations are standard product offering. Contact your Parker sales team for price and delivery.
- Couplings greater than DN 25 operating with pressure above 10 bar are restricted to be used with liquid fluids group 2 acc to PED 2014/68/EU. Couplings used with gases of fluid group 2 must consider PED 2014/68/EU if used with Nominal Diameter greater than DN 32 and are limited to a product of PS x DN greater than 1000 bar. For fluids Group 1 please see catalogue "Snap-tite H, IH,& PH Series", (LEAF/3800-H Series/UK).

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