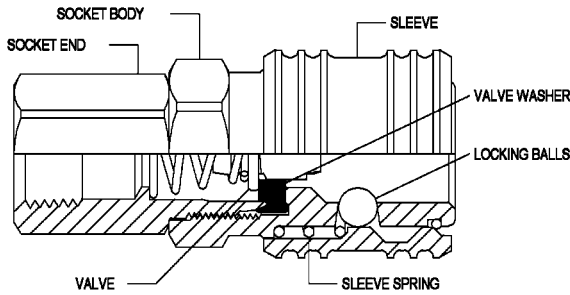




# Series 1000/400/500

## Industrial Interchange



**Industrial Interchange Ball Lock Quick-Connect Couplings** designed for compressed air, gases, and liquids. Body sizes are 1/4", 3/8" and 1/2".

### Features

- Ball lock
- Manual operation
- Rugged, reliable
- 1/4" and 1/2" sockets accept MIL-C-4109 plugs
- Optional sleeve lock prevents accidental disconnection
- Optional seal and valve materials available
- Optional stainless steel socket (Series 1000 only)
- Series 400 sockets accept Tru-Flate Interchange plugs and Industrial Interchange plugs

### Standard Materials

- Socket
  - Brass Body
  - Nickel Plated Steel Sleeve
  - Zinc Plated Steel Valve
  - Buna-N (Nitrile) Seal
  - Stainless Steel Springs
  - Stainless Steel Locking Balls
- Plug
  - Zinc Plated Case-Hardened Steel (All Sizes)
  - Brass (All Sizes)
  - Stainless Steel (Series 1000)

### Accessories

- Dust caps and dust plugs (See page 66)

### Rated Pressure

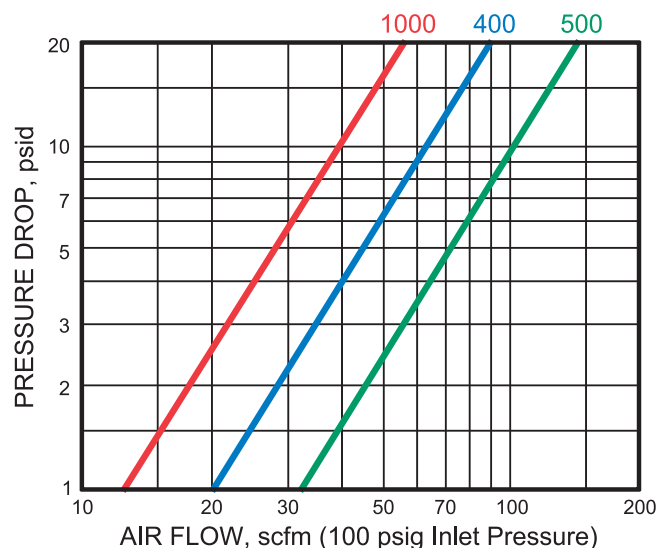
| Series | Size | PSI   | BAR |
|--------|------|-------|-----|
| 1000   | 1/4" | 2,000 | 138 |
| 400    | 3/8" | 1,000 | 69  |
| 500    | 1/2" | 500   | 35  |

NOTE: Series 400 operating pressure is 150 psi when connected to Truflate Interchange plug.

### Flow Capacity

| Series | †Ac |
|--------|-----|
| 1000   | 28  |
| 400    | 45  |
| 500    | 72  |

† Air flow (scfm) with 5 psi pressure drop and 100 psig inlet pressure



# Series 500 1/2" Nominal

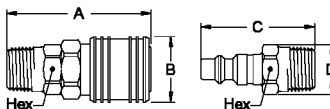


## SOCKETS

## PLUGS

| Part No. | Thread Size | Dimensions |      |      |
|----------|-------------|------------|------|------|
|          |             | A          | B    | HEX  |
| 501      | 1/4-18 NPTF | 2.77       | 1.19 | 1.00 |
| 510      | 3/8-18 NPTF | 2.78       | 1.19 | 1.00 |
| 530      | 1/2-14 NPTF | 2.97       | 1.19 | 1.00 |
| 550      | 3/4-14 NPTF | 2.97       | 1.19 | 1.06 |

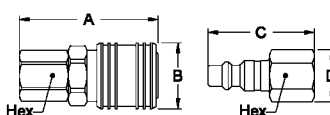
### Male End Connections



| Part No.     | Thread Size | Dimensions |      |      |
|--------------|-------------|------------|------|------|
|              |             | C          | D    | HEX  |
| <b>Steel</b> |             |            |      |      |
| 50           | 1/4-18 NPTF | 2.25       | 0.79 | 0.69 |
| 50G†         | 1/4-18 NPTF | 2.90       | 0.98 | 0.88 |
| 52           | 3/8-18 NPTF | 2.25       | 0.87 | 0.75 |
| 52G†         | 3/8-18 NPTF | 2.90       | 0.98 | 0.88 |
| 54           | 1/2-14 NPTF | 2.44       | 1.01 | 0.88 |
| 54G†         | 1/2-14 NPTF | 3.09       | 0.98 | 0.88 |
| 56           | 3/4-14 NPTF | 2.50       | 1.23 | 1.06 |
| 56G†         | 3/4-14 NPTF | 3.14       | 1.19 | 1.06 |
| <b>Brass</b> |             |            |      |      |
| B-52         | 3/8-18 NPTF | 2.25       | 0.70 | 0.63 |
| B-54         | 1/2-14 NPTF | 2.44       | 0.77 | 0.88 |

| Part No. | Thread Size | Dimensions |      |      |
|----------|-------------|------------|------|------|
|          |             | A          | B    | HEX  |
| 500-A    | 1/4-18 NPTF | 2.72       | 1.19 | 1.00 |
| 500      | 3/8-18 NPTF | 2.78       | 1.19 | 1.00 |
| 520      | 1/2-14 NPTF | 3.06       | 1.19 | 1.00 |
| 540      | 3/4-14 NPTF | 3.09       | 1.19 | 1.19 |

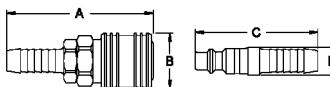
### Female End Connections



| Part No.     | Thread Size | Dimensions |      |      |
|--------------|-------------|------------|------|------|
|              |             | C          | D    | HEX  |
| <b>Steel</b> |             |            |      |      |
| 53-A         | 1/4-18 NPTF | 1.92       | 0.79 | 0.69 |
| 53           | 3/8-18 NPTF | 2.06       | 0.94 | 0.81 |
| 53G†         | 3/8-18 NPTF | 2.90       | 0.98 | 0.88 |
| 55           | 1/2-14 NPTF | 2.34       | 1.15 | 1.00 |
| 55G†         | 1/2-14 NPTF | 3.17       | 0.98 | 0.88 |
| 57           | 3/4-14 NPTF | 2.44       | 1.37 | 1.19 |

| Part No. | Hose I.D. | Dimensions |      |
|----------|-----------|------------|------|
|          |           | A          | B    |
| 570      | 3/8"      | 3.32       | 1.19 |
| 580      | 1/2"      | 3.24       | 1.19 |
| 590      | 3/4"      | 4.09       | 1.19 |

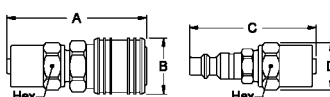
### Hose Stem End Connections



| Part No.     | Hose I.D. | Dimensions |      |
|--------------|-----------|------------|------|
|              |           | C          | D    |
| <b>Steel</b> |           |            |      |
| 585          | 5/16"     | 2.66       | 0.69 |
| 585G†        | 5/16"     | 3.37       | 0.98 |
| 59           | 3/8"      | 2.66       | 0.69 |
| 59G†         | 3/8"      | 3.37       | 0.98 |
| 60           | 1/2"      | 2.66       | 0.75 |
| 60G†         | 1/2"      | 3.37       | 0.98 |
| 61           | 3/4"      | 3.50       | 1.00 |
| 61G†         | 3/4"      | 4.22       | 0.98 |
| <b>Brass</b> |           |            |      |
| B-60         | 1/2"      | 2.75       | 0.88 |

| Part No. | Hose |         | Dimensions |      |      |
|----------|------|---------|------------|------|------|
|          | I.D. | O.D.    | A          | B    | HEX  |
| 50-SD7   | 3/8" | 5/8"    | 3.49       | 1.19 | 0.75 |
| 50-SD13  | 3/8" | 13/16"  | 3.49       | 1.19 | 0.94 |
| 50-SP13  | 1/2" | 13/16"  | 4.09       | 1.19 | 0.94 |
| 50-SP15  | 1/2" | 7/8"    | 4.09       | 1.19 | 1.00 |
| 50-SP17  | 1/2" | 15/16"  | 4.09       | 1.19 | 1.06 |
| 50-SP19  | 1/2" | 1"      | 4.09       | 1.19 | 1.13 |
| 50-SR23  | 3/4" | 1-1/8"  | 4.22       | 1.19 | 1.25 |
| 50-SR25  | 3/4" | 1-3/16" | 4.22       | 1.19 | 1.31 |
| 50-SR27  | 3/4" | 1-1/4"  | 4.22       | 1.19 | 1.38 |

### Hose Clamp End Connections



| Part No.     | Hose |         | Dimensions |      |      |
|--------------|------|---------|------------|------|------|
|              | I.D. | O.D.    | C          | D    | HEX  |
| <b>Steel</b> |      |         |            |      |      |
| 5-PB1        | 1/4" | 15/32"  | 2.81       | 0.70 | 0.63 |
| 5-PB3        | 1/4" | 1/2"    | 2.81       | 0.70 | 0.63 |
| 5-PB5        | 1/4" | 9/16"   | 2.81       | 0.77 | 0.69 |
| 5-PB7        | 1/4" | 5/8"    | 2.81       | 0.84 | 0.75 |
| 5-PD5        | 3/8" | 9/16"   | 2.94       | 0.77 | 0.69 |
| 5-PD7        | 3/8" | 5/8"    | 2.94       | 0.84 | 0.75 |
| 5-PD9        | 3/8" | 11/16"  | 2.94       | 0.91 | 0.81 |
| 5-PD11       | 3/8" | 3/4"    | 2.94       | 0.98 | 0.88 |
| 5-PD13       | 3/8" | 13/16"  | 2.94       | 1.05 | 0.94 |
| 5-PD15       | 3/8" | 7/8"    | 2.94       | 1.12 | 1.00 |
| 5-PP13       | 1/2" | 13/16"  | 3.62       | 1.05 | 0.94 |
| 5-PP15       | 1/2" | 7/8"    | 3.62       | 1.12 | 1.00 |
| 5-PP17       | 1/2" | 15/16"  | 3.62       | 1.19 | 1.06 |
| 5-PP19       | 1/2" | 1"      | 3.62       | 1.26 | 1.13 |
| 5-PR23       | 3/4" | 1-1/8"  | 3.75       | 1.40 | 1.25 |
| 5-PR25       | 3/4" | 1-3/16" | 3.75       | 1.47 | 1.31 |
| 5-PR27       | 3/4" | 1-1/4"  | 3.75       | 1.54 | 1.38 |

†With Bleeder Ball Check – Reduces hose whip when disconnecting.

### How to build a socket part number with options:

- Notes:
- 1) Some part numbers may be subject to minimum order quantities.
  - 2) Options not shown may be available by special quotation. Consult your Hansen distributor.

Example: **500 - SL - 143**

Standard Part Number from Socket Tables Above

Seal Material:  
143 = Viton  
192 = EPDM

SL = Sleeve Lock

All dimensions in inches.

