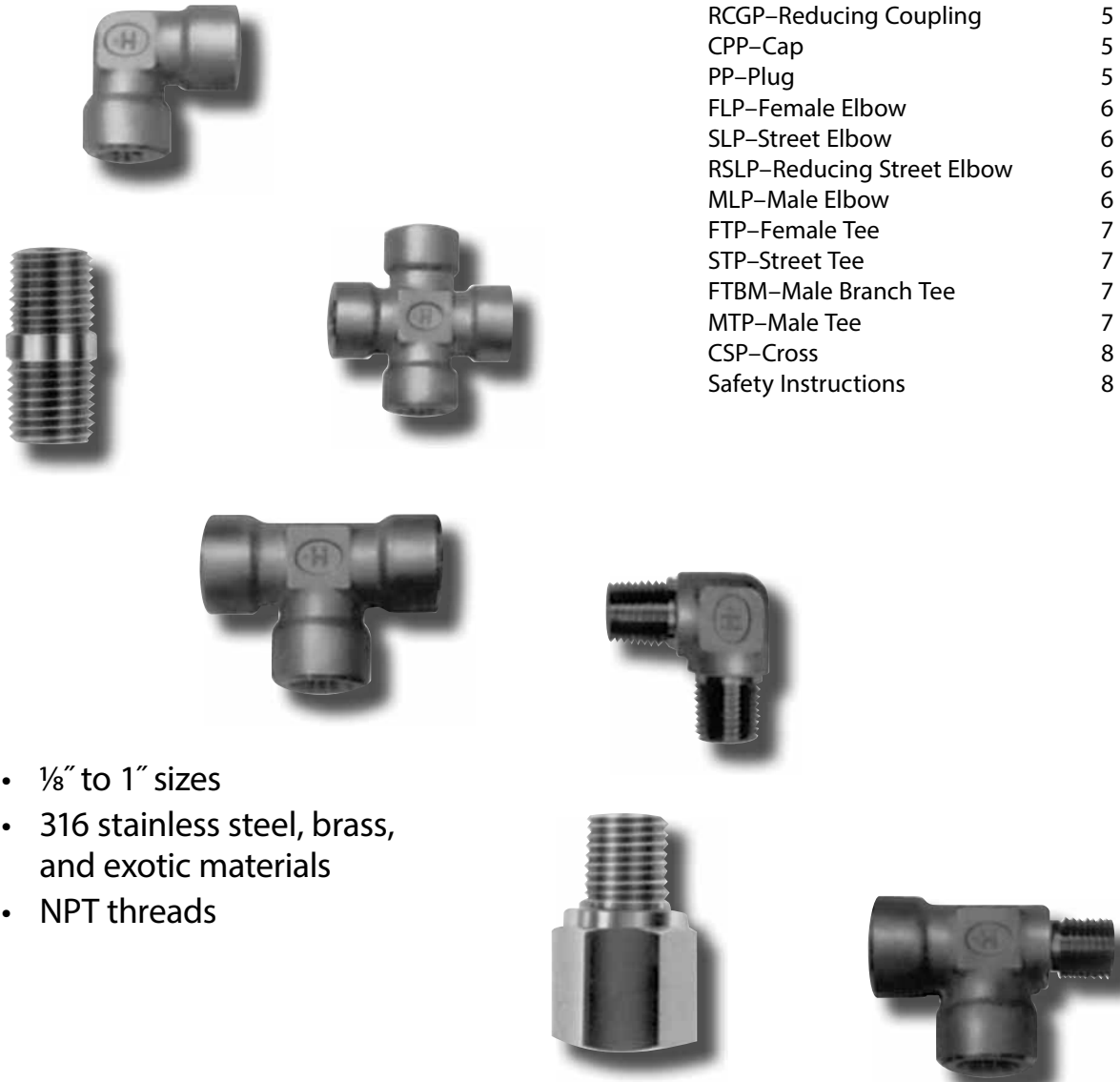


Precision Pipe Fittings

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- 1/8" to 1" sizes
- 316 stainless steel, brass, and exotic materials
- NPT threads

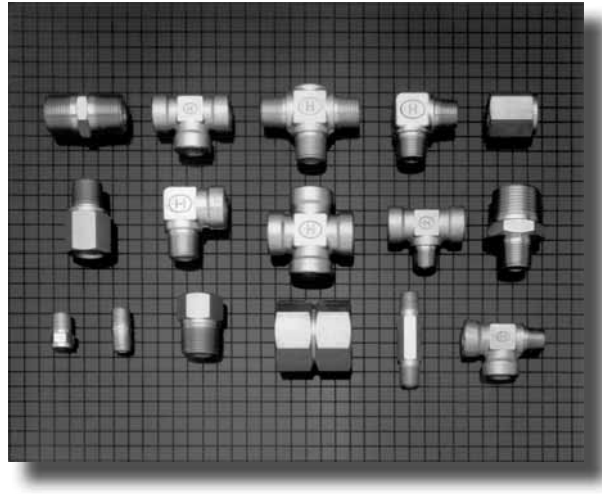
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HOKE®

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HOKE® Precision Instrument Pipe Fittings

HOKE® Precision Instrument Pipe Fittings are manufactured with high quality NPT tapered threads in a wide variety of configurations to provide broad application capabilities.



precision pipe fittings

Threads

Threads utilized on HOKE® Precision Instrument Pipe fittings are National Pipe Taper (NPT) which exceed the requirements of ANSI B1.20.1.

Pressure Ratings

Pressure ratings for temperatures up to 100° F are identified for each individual pipe fitting in the dimensional data charts.

Temperature*

Temperatures noted below apply to basic fitting capabilities. In all cases consideration must also be given to the type of thread sealant used. For example, PTFE tape has a maximum temperature rating of 450° F.

- 316 stainless steel: -325° F to +1200° F
(-198° C to +648° C)
- Brass: -325° F to +400° F
(-198° C to +204° C)

** Prolonged exposure to temperature over 800° F is not recommended.*

Materials

HOKE® Precision Pipe Fittings are available as standard in Brass and 316 Stainless Steel. HOKE® pipe fittings can also be supplied in other materials including, MONEL®, HASTELLOY® C, Inconel and Titanium and in special shapes. Specifications for standard materials are:

| | |
|-------------------------------|------------|
| 316 Stainless Steel Forgings | ASTM A-182 |
| 316 Stainless Steel Bar Stock | ASTM A-479 |
| Brass Forgings, Alloy 377 | QQ-B-626 |
| Brass Bar Stock, Alloy 353 | ASTM B-453 |
| Brass Bar Stock, Alloy 360 | QQ-B-626 |

Heat Traceability

HOKE's 316 Stainless Steel Precision Instrument Pipe Fittings are heat code traceable. To obtain certified material test reports (CMTR'S) for these components, place separate orders for such items and specify "CMTR'S required".

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HOKE® Pipe Fitting Part Numbering

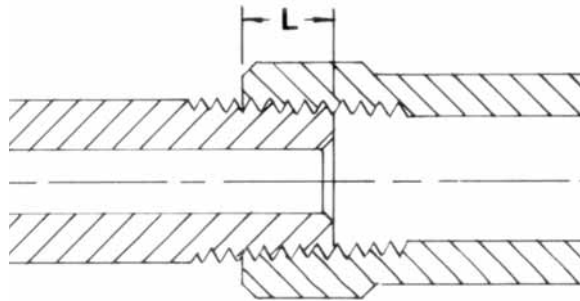
The part numbering system for HOKE® Precision Instrument Pipe Fittings is completely descriptive and easily understood.

Example:

| PIPE SIZE IN SIXTEENTHS OF AN INCH | PIPE FITTING TYPE | PIPE SIZE (IF DIFFERENT) IN SIXTEENTHS OF AN INCH | MATERIAL BRASS – BR 316 SS – 316 EXAMPLE: 4RAP2316 |
|------------------------------------|-------------------|---|---|
| 4 | RAP | 2 | 316 |
| ¼ NPT | Reducing Adapter | ⅛ NPT | 316 Stainless Steel |

Assembly Instructions

To ensure a leak-tight seal, the use of a pipe thread sealant is recommended. One commonly utilized technique is PTFE Tape. The chart below provides information regarding the recommended tape width and the approximate number of threads which should be wrapped

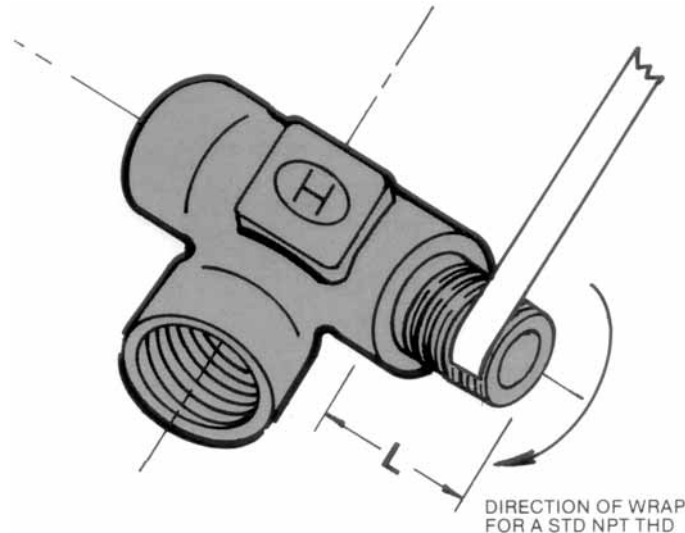


| NOMINAL PIPE SIZE | RECOMMENDED TAPE WIDTH | EFFECTIVE THREAD LENGTH (EXTERNAL) L* | APPROX. # OF THREADS |
|-------------------|------------------------|---------------------------------------|----------------------|
| ⅛ | ⅛–¼ | ¼ | 7 |
| ¼ | ¼ | ⅜ | 7½ |
| ⅜ | ¼ | ⅜ | 7½ |
| ½ | ¼–½ | ½ | 7½ |
| ¾ | ¼–½ | 9/16 | 7½ |
| 1 | ¼–½ | 11/16 | 8 |

* ISA Handbook of Control Valves. Note: Dimensions are in inches. The Pipe Thread Sealants may have lower temperature capabilities than the basic fitting.

Example: For a ¼ NPT, "L" = ⅜"

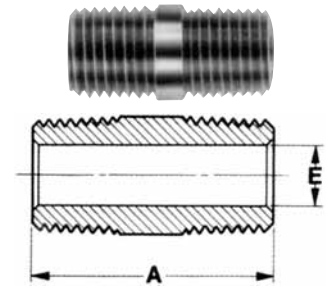
Approximate number of threads which should be wrapped = 7½



Precision Instrument Pipe Fittings

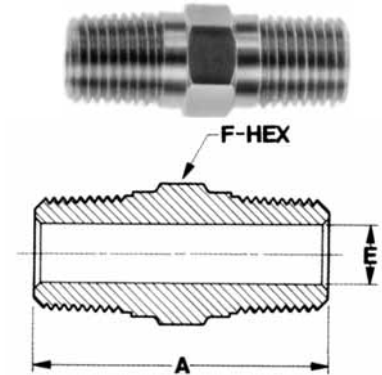
CNP Close Nipple (male NPT both ends)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--|------------|------------------|-------------------------|-------|
| | MALE | | A | E (MIN. OPENING) | BRASS | 316SS |
| 4CNP - [] | 1/4 | | 1 1/8 | 9/32 | 5700 | 9900 |
| 6CNP - [] | 3/8 | | 1 1/8 | 3/8 | 5500 | 9000 |
| 8CNP - [] | 1/2 | | 1 1/2 | 27/64 | 5400 | 8900 |
| 12CNP - [] | 3/4 | | 1 1/2 | 5/8 | 4600 | 8300 |



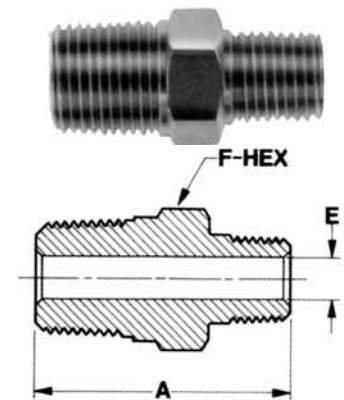
NP Hex Nipple (male NPT both ends)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--|------------|-------|--------|-------------------------|--------|
| | MALE | | A | E MIN | F HEX | BRASS | 316SS |
| 1NP - [] | 1/16 | | 1 3/64 | 1/8 | 5/16 | 7100 | 12,300 |
| 2NP - [] | 1/8 | | 1 7/32 | 3/16 | 7/16 | 7100 | 12,300 |
| 4NP - [] | 1/4 | | 1 9/32 | 9/32 | 9/16 | 5700 | 9900 |
| 6NP - [] | 3/8 | | 1 5/8 | 3/8 | 1 1/16 | 5500 | 9000 |
| 8NP - [] | 1/2 | | 2 | 15/32 | 7/8 | 5400 | 8900 |
| 12NP - [] | 3/4 | | 2 | 5/8 | 1 1/16 | 4600 | 8300 |
| 16NP - [] | 1 | | 2 1/4 | 7/8 | 1 3/8 | 3400 | 5900 |



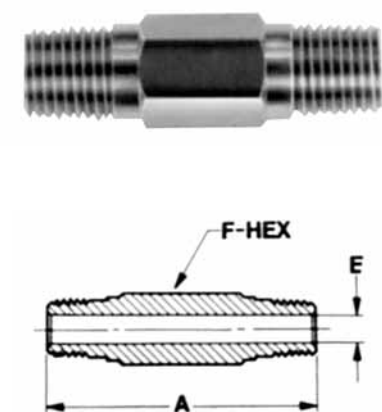
RNP Hex Reducing Nipple (male NPT to reduced male NPT)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--------------|------------|-------|--------|-------------------------|--------|
| | MALE | REDUCED MALE | A | E MIN | F HEX | BRASS | 316SS |
| 2RNP1 - [] | 1/8 | 1/16 | 1 3/16 | 3/32 | 7/16 | 7100 | 12,300 |
| 4RNP2 - [] | 1/4 | 1/8 | 1 9/32 | 3/16 | 9/16 | 7100 | 12,300 |
| 6RNP4 - [] | 3/8 | 1/4 | 1 1/2 | 9/32 | 1 1/16 | 5700 | 9900 |
| 8RNP4 - [] | 1/2 | 1/4 | 1 11/16 | 9/32 | 7/8 | 5700 | 9900 |
| 8RNP6 - [] | 1/2 | 3/8 | 1 11/16 | 3/8 | 7/8 | 5500 | 9000 |
| 12RNP6 - [] | 3/4 | 3/8 | 1 23/32 | 3/8 | 1 1/16 | 5500 | 9000 |
| 12RNP8 - [] | 3/4 | 1/2 | 1 29/32 | 7/16 | 1 1/16 | 6200 | 10,100 |
| 16RNP8 - [] | 1 | 1/2 | 2 9/32 | 7/16 | 1 3/8 | 6200 | 10,100 |
| 16RNP12 - [] | 1 | 3/4 | 2 9/32 | 5/8 | 1 3/8 | 4600 | 8300 |

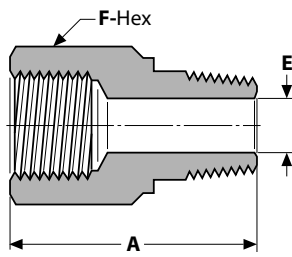
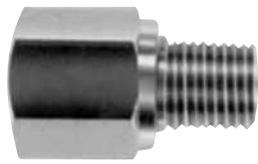


LNP Hex Long Nipple (male NPT both ends)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--|------------|-------|--------|-------------------------|--------|
| | MALE | | A | E MIN | F HEX | BRASS | 316SS |
| 2LNP - []/200 | 1/8 | | 2 | 3/16 | 7/16 | 7100 | 12,300 |
| 2LNP - []/250 | 1/8 | | 2 1/2 | 3/16 | 7/16 | 7100 | 12,300 |
| 4LNP - []/200 | 1/4 | | 2 | 9/32 | 9/16 | 5700 | 9900 |
| 4LNP - []/250 | 1/4 | | 2 1/2 | 9/32 | 9/16 | 5700 | 9900 |
| 4LNP - []/300 | 1/4 | | 3 | 9/32 | 9/16 | 5700 | 9900 |
| 4LNP - []/400 | 1/4 | | 4 | 9/32 | 9/16 | 5700 | 9900 |
| 6LNP - []/200 | 3/8 | | 2 | 3/8 | 1 1/16 | 5500 | 9000 |
| 6LNP - []/250 | 3/8 | | 2 1/2 | 3/8 | 1 1/16 | 5500 | 9000 |
| 6LNP - []/400 | 3/8 | | 4 | 3/8 | 1 1/16 | 5500 | 9000 |
| 8LNP - []/300 | 1/2 | | 3 | 15/32 | 7/8 | 5400 | 8900 |
| 12LNP - []/300 | 3/4 | | 3 | 5/8 | 1 1/16 | 4600 | 8300 |
| 16LNP - []/300 | 1 | | 3 | 7/8 | 1 3/8 | 3400 | 5900 |
| 16LNP - []/400 | 1 | | 4 | 7/8 | 1 3/8 | 3400 | 5900 |

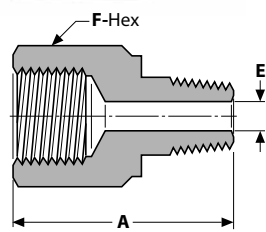


Precision Instrument Pipe Fittings



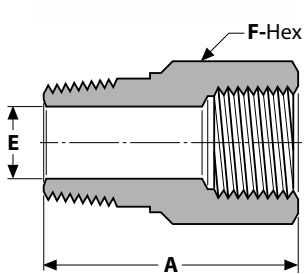
AP Adapter (female NPT same size male NPT)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--|------------|--------|--------|-------------------------|-------|
| | MALE | | A | E MIN | F HEX | BRASS | 316SS |
| 2AP - [] | 1/8 | | 1 | 3/16 | 9/16 | 4200 | 7300 |
| 4AP - [] | 1/4 | | 1 3/8 | 9/32 | 3/4 | 4200 | 7300 |
| 6AP - [] | 3/8 | | 1 9/16 | 3/8 | 7/8 | 3400 | 5500 |
| 8AP - [] | 1/2 | | 1 29/32 | 15/32 | 1 1/16 | 2700 | 4900 |
| 12AP - [] | 3/4 | | 1 31/32 | 2 1/32 | 1 1/4 | 2100 | 3700 |



RAP Reducing Adapter (female NPT to reduced male NPT)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|------|------------|-------|--------|-------------------------|-------|
| | FEMALE | MALE | A | E MIN | F HEX | BRASS | 316SS |
| 4RAP2 - [] | 1/4 | 1/8 | 1 1/4 | 3/16 | 3/4 | 4200 | 7300 |
| 6RAP2 - [] | 3/8 | 1/8 | 1 5/16 | 3/16 | 7/8 | 3400 | 5500 |
| 6RAP4 - [] | 3/8 | 1/4 | 1 1/2 | 9/32 | 7/8 | 3400 | 5500 |
| 8RAP4 - [] | 1/2 | 1/4 | 1 3/4 | 9/32 | 1 1/16 | 2700 | 4900 |
| 8RAP6 - [] | 1/2 | 3/8 | 1 3/4 | 3/8 | 1 1/16 | 2700 | 4900 |
| 12RAP4 - [] | 3/4 | 1/4 | 1 13/16 | 9/32 | 1 1/4 | 2100 | 3700 |
| 12RAP6 - [] | 3/4 | 3/8 | 1 13/16 | 3/8 | 1 1/4 | 2100 | 3700 |
| 12RAP8 - [] | 3/4 | 1/2 | 2 | 15/32 | 1 1/4 | 2100 | 3700 |
| 16RAP8 - [] | 1 | 1/2 | 2 1/4 | 15/32 | 1 5/8 | 2500 | 4300 |
| 16RAP12 - [] | 1 | 3/4 | 2 1/4 | 5/8 | 1 5/8 | 2500 | 4300 |



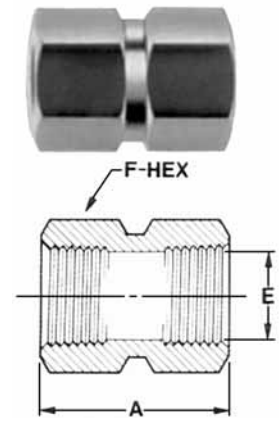
RBP Reducing Bushing (male NPT to reduced female NPT)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--------|------------|--------|--------|-------------------------|--------|
| | MALE | FEMALE | A | E MIN | F HEX | BRASS | 316SS |
| 2RBP1 - [] | 1/8 | 1/16 | 1 | 3/16 | 7/16 | 7000 | 12,200 |
| 4RBP2 - [] | 1/4 | 1/8 | 1 | 9/32 | 9/16 | 4200 | 7300 |
| 6RBP2 - [] | 3/8 | 1/8 | 1 1/8 | 1 1/32 | 3/4 | 6600 | 11,400 |
| 6RBP4 - [] | 3/8 | 1/4 | 1 1/8 | 3/8 | 3/4 | 4200 | 7300 |
| 8RBP4 - [] | 1/2 | 1/4 | 1 5/32 | 7/16 | 7/8 | 5700 | 9300 |
| 8RBP6 - [] | 1/2 | 3/8 | 1 5/32 | 7/16 | 7/8 | 2900 | 4800 |
| 12RBP4 - [] | 3/4 | 1/4 | 1 7/32 | 7/16 | 1 1/16 | 7300 | 13,100 |
| 12RBP6 - [] | 3/4 | 3/8 | 1 9/16 | 37/64 | 1 1/16 | 5200 | 9400 |
| 12RBP8 - [] | 3/4 | 1/2 | 1 9/16 | 5/8 | 1 1/16 | 4000 | 7300 |
| 16RBP8 - [] | 1 | 1/2 | 1 9/16 | 23/32 | 1 3/8 | 5600 | 9500 |
| 16RBP12 - [] | 1 | 3/4 | 1 3/4 | 7/8 | 1 3/8 | 3200 | 5400 |

Precision Instrument Pipe Fittings

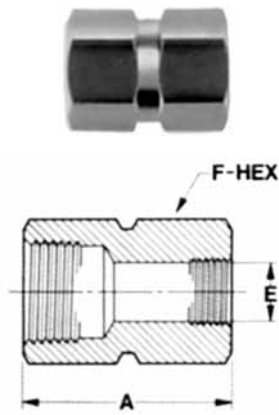
CGP Hex Coupling (female NPT both ends)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--------|------------|--------|-------|-------------------------|--|
| | FEMALE | A | E MIN | F HEX | BRASS | 316SS | |
| 2CGP - [] | 1/8 | 13/16 | 11/32 | 9/16 | 4200 | 7300 | |
| 4CGP - [] | 1/4 | 1 1/8 | 7/16 | 3/4 | 4200 | 7300 | |
| 6CGP - [] | 3/8 | 1 1/4 | 37/64 | 7/8 | 3400 | 5500 | |
| 8CGP - [] | 1/2 | 1 1/2 | 23/32 | 1 1/16 | 2700 | 4900 | |
| 12CGP - [] | 3/4 | 1 9/16 | 59/64 | 1 1/4 | 2100 | 3700 | |
| 16CGP - [] | 1 | 2 | 1 1/64 | 1 5/8 | 2500 | 4300 | |



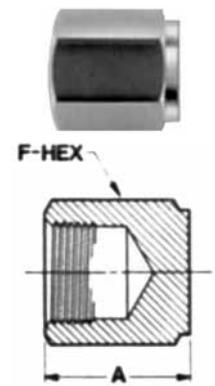
RCGP Reducing Coupling (female NPT to reduced female NPT)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--------|------------|--------|--------|-------------------------|-------|
| | FEMALE | FEMALE | A | E MIN | F HEX | BRASS | 316SS |
| 4RCGP2 - [] | 1/4 | 1/8 | 1 | 1 1/32 | 3/4 | 4200 | 7300 |
| 6RCGP4 - [] | 3/8 | 1/4 | 1 3/8 | 7/16 | 7/8 | 3400 | 5500 |
| 8RCGP4 - [] | 1/2 | 1/4 | 1 1/2 | 7/16 | 1 1/16 | 2700 | 4900 |
| 8RCGP6 - [] | 1/2 | 3/8 | 1 1/2 | 37/64 | 1 1/16 | 2700 | 4900 |
| 12RCGP4 - [] | 3/4 | 1/4 | 1 23/32 | 7/16 | 1 1/4 | 2100 | 3700 |
| 12RCGP6 - [] | 3/4 | 3/8 | 2 1/16 | 37/64 | 1 1/4 | 2100 | 3700 |
| 12RCGP8 - [] | 3/4 | 1/2 | 2 1/16 | 23/32 | 1 1/4 | 2100 | 3700 |
| 16RCGP8 - [] | 1 | 1/2 | 2 3/16 | 23/32 | 1 5/8 | 2500 | 4300 |
| 16RCGP12 - [] | 1 | 3/4 | 2 1/4 | 59/64 | 1 5/8 | 2500 | 4200 |



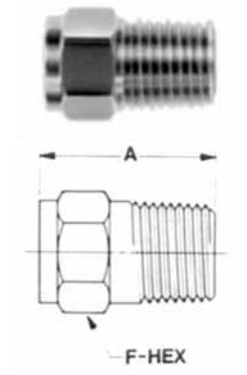
CPP Cap (female NPT)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--------|------------|-------|-------------------------|--|
| | FEMALE | A | F HEX | BRASS | 316SS | |
| 2CPP - [] | 1/8 | 1 1/16 | 9/16 | 4200 | 7300 | |
| 4CPP - [] | 1/4 | 7/8 | 3/4 | 4200 | 7300 | |
| 6CPP - [] | 3/8 | 1 1/32 | 7/8 | 3400 | 5500 | |
| 8CPP - [] | 1/2 | 1 1/4 | 1 1/16 | 2700 | 4900 | |
| 12CPP - [] | 3/4 | 1 7/16 | 1 1/4 | 2100 | 3700 | |
| 16CPP - [] | 1 | 1 5/8 | 1 5/8 | 2500 | 4300 | |

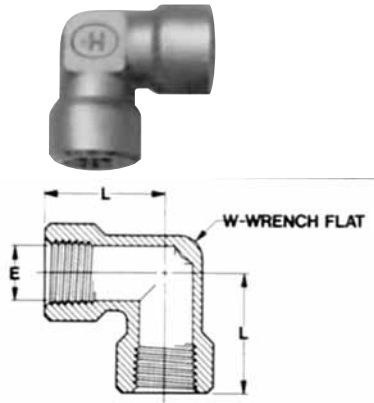


PP Plug (male NPT)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | |
|----------------------|-----------|---------|------------|--|
| | MALE | A | F HEX | |
| 1PP - [] | 1/16 | 47/64 | 5/16 | |
| 2PP - [] | 1/8 | 3/4 | 7/16 | |
| 4PP - [] | 1/4 | 15/16 | 9/16 | |
| 6PP - [] | 3/8 | 1 | 1 1/16 | |
| 8PP - [] | 1/2 | 1 1/4 | 7/8 | |
| 12PP - [] | 3/4 | 1 5/16 | 1 1/16 | |
| 16PP - [] | 1 | 1 11/16 | 1 3/8 | |

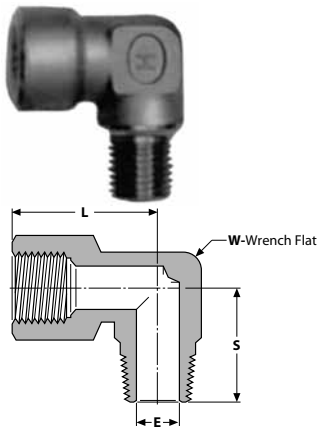


Precision Instrument Pipe Fittings



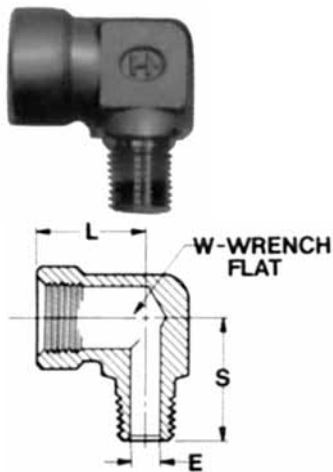
FLP Female Elbow (female NPT both ends)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|-------|------------|-------|-------|-------------------------|--|
| | FEMALE | L | E MIN | W | BRASS | 316SS | |
| 2FLP - [] | 1/8 | 3/4 | 11/32 | 1/2 | 3600 | 5600 | |
| 4FLP - [] | 1/4 | 27/32 | 7/16 | 11/16 | 2900 | 4600 | |
| 6FLP - [] | 3/8 | 1 | 37/64 | 13/16 | 2300 | 3700 | |
| 8FLP - [] | 1/2 | 1 1/8 | 23/32 | 1 | 2200 | 3500 | |
| 12FLP - [] | 3/4 | 1 1/4 | 59/64 | 1 1/4 | 2200 | 3400 | |



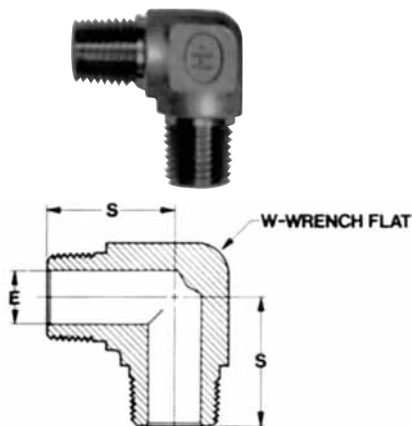
SLP Street Elbow (female to male NPT)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|--------|------------|-------|-------|-------------------------|-------|
| | FEMALE | L | S | E MIN | W | BRASS | 316SS |
| 1SLP - [] | 1/16 | 3/4 | 23/32 | 1/8 | 7/16 | 5000 | 7900 |
| 2SLP - [] | 1/8 | 3/4 | 25/32 | 3/16 | 1/2 | 3600 | 5600 |
| 4SLP - [] | 1/4 | 27/32 | 1 1/8 | 9/32 | 11/16 | 2900 | 4600 |
| 6SLP - [] | 3/8 | 1 | 1 1/4 | 3/8 | 13/16 | 2300 | 3700 |
| 8SLP - [] | 1/2 | 1 1/8 | 1 11/32 | 15/32 | 1 | 2200 | 3500 |
| 12SLP - [] | 3/4 | 1 7/16 | 1 1/2 | 5/8 | 1 1/4 | 2200 | 3400 |



RSLP Reducing Street Elbow (female NPT reduced male NPT)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|----------------|------------|--------|-------|-------|-------------------------|-------|
| | FEMALE | REDUCED FEMALE | L | S | E MIN | W | BRASS | 316SS |
| 6RSLP4 - [] | 3/8 | 1/4 | 1 | 1 1/8 | 9/32 | 13/16 | 2300 | 3700 |
| 8RSLP4 - [] | 1/2 | 1/4 | 1 1/4 | 1 1/8 | 9/32 | 1 | 2200 | 3500 |
| 8RSLP6 - [] | 1/2 | 3/8 | 1 1/2 | 1 5/32 | 13/32 | 1 | 3600 | 5600 |



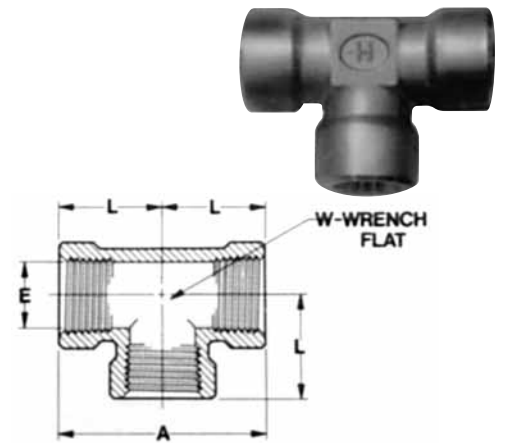
MLP Male Elbow (male NPT both ends)

| ORDER BY PART NUMBER | PIPE SIZE | | DIMENSIONS | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|-------|------------|-------|-------|-------------------------|--|
| | MALE | S | E MIN | W | BRASS | 316SS | |
| 2MLP - [] | 1/8 | 23/32 | 3/16 | 7/16 | 6200 | 9700 | |
| 4MLP - [] | 1/4 | 61/64 | 9/32 | 11/16 | 5000 | 7800 | |
| 6MLP - [] | 3/8 | 1 | 3/8 | 11/16 | 4800 | 7500 | |
| 8MLP - [] | 1/2 | 13/16 | 15/32 | 1 | 4700 | 7400 | |
| 12MLP - [] | 3/4 | 1 1/2 | 5/8 | 1 1/4 | 4400 | 6900 | |

Precision Instrument Pipe Fittings

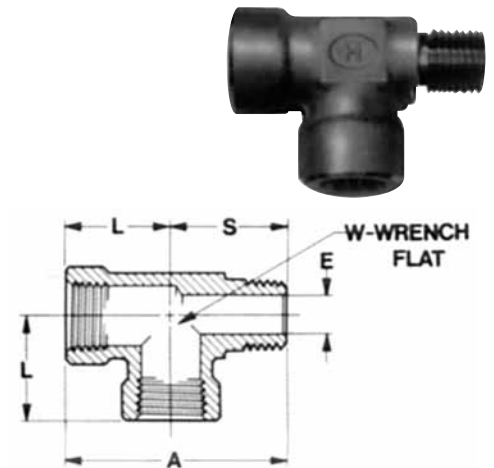
FTP Female Tee (female NPT all ports)

| ORDER BY PART NUMBER | PIPE SIZE | DIMENSIONS | | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|------------|--------|--------|--------|-------------------------|-------|
| | FEMALE | A | L | E MIN | W | BRASS | 316SS |
| 2FTP - [] | 1/8 | 1 1/2 | 3/4 | 1 1/32 | 1/2 | 3600 | 5600 |
| 4FTP - [] | 1/4 | 1 11/16 | 27/32 | 7/16 | 1 1/16 | 2900 | 4600 |
| 6FTP - [] | 3/8 | 2 | 1 | 37/64 | 1 3/16 | 2300 | 3700 |
| 8FTP - [] | 1/2 | 2 1/4 | 1 1/8 | 23/32 | 1 | 2200 | 3500 |
| 12FTP - [] | 3/4 | 2 7/8 | 1 1/16 | 59/64 | 1 5/8 | 4200 | 7900 |



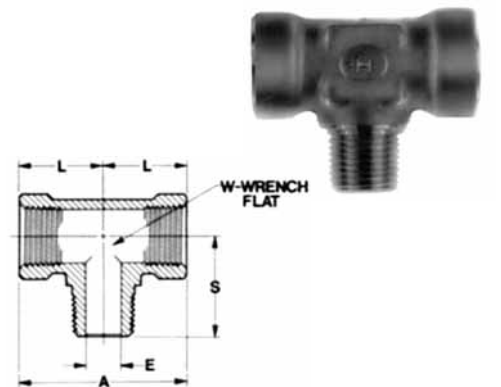
STP Street Tee (female by male run/female branch)

| ORDER BY PART NUMBER | PIPE SIZE | DIMENSIONS | | | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|------------|--------|---------|-------|--------|-------------------------|-------|
| | | A | L | S | E MIN | W | BRASS | 316SS |
| 2STP - [] | 1/8 | 1 17/32 | 3/4 | 25/32 | 3/16 | 1/2 | 3600 | 5600 |
| 4STP - [] | 1/4 | 1 27/32 | 27/32 | 1 | 9/32 | 1 1/16 | 2800 | 4500 |
| 6STP - [] | 3/8 | 2 1/8 | 1 | 1 1/8 | 3/8 | 1 3/16 | 2300 | 3700 |
| 8STP - [] | 1/2 | 2 15/32 | 1 1/8 | 1 11/32 | 15/32 | 1 | 2200 | 3500 |
| 12STP - [] | 3/4 | 3 3/64 | 1 1/16 | 1 5/8 | 5/8 | 1 5/8 | 3800 | 7200 |



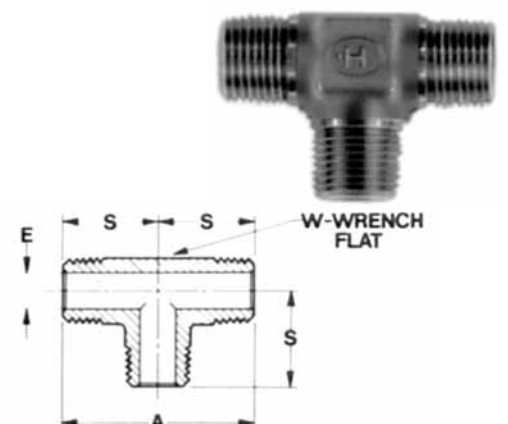
FTBM Male Branch Tee (female run/male branch)

| ORDER BY PART NUMBER | PIPE SIZE | DIMENSIONS | | | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|------------|-------|---------|-------|--------|-------------------------|-------|
| | | A | L | S | E MIN | W | BRASS | 316SS |
| 2FT/BM2 - [] | 1/8 | 1 11/16 | 27/32 | 27/32 | 3/16 | 1 1/16 | 6200 | 9700 |
| 4FT/BM4 - [] | 1/4 | 1 11/16 | 27/32 | 1 | 9/32 | 1 1/16 | 2900 | 4600 |
| 6FT/BM6 - [] | 3/8 | 2 | 1 | 1 1/8 | 3/8 | 1 3/16 | 2300 | 3700 |
| 8FT/BM8 - [] | 1/2 | 2 1/4 | 1 1/8 | 1 25/64 | 15/32 | 1 | 2200 | 3500 |

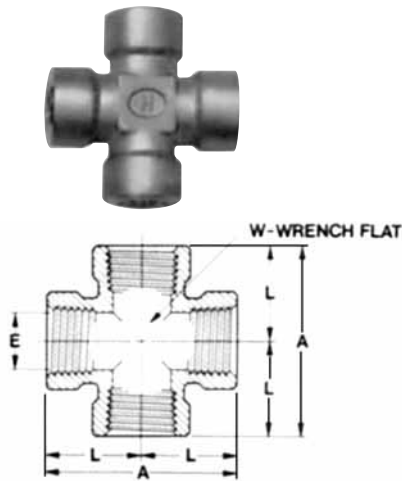


MTP Male Tee (male NPT all ports)

| ORDER BY PART NUMBER | PIPE SIZE | DIMENSIONS | | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|------------|---------|-------|--------|-------------------------|-------|
| | MALE | A | S | E MIN | W | BRASS | 316SS |
| 2MTP - [] | 1/8 | 1 1/2 | 3/4 | 3/16 | 7/16 | 6200 | 9700 |
| 4MTP - [] | 1/4 | 2 | 1 | 9/32 | 1 1/16 | 5000 | 7800 |
| 6MTP - [] | 3/8 | 2 | 1 | 3/8 | 1 1/16 | 4800 | 7500 |
| 8MTP - [] | 1/2 | 2 17/32 | 1 17/64 | 15/32 | 1 | 4700 | 7400 |
| 12MTP - [] | 3/4 | 3 | 1 1/2 | 5/8 | 1 1/4 | 4400 | 6900 |



Precision Instrument Pipe Fittings



CSP Cross

| ORDER BY PART NUMBER | PIPE SIZE | DIMENSIONS | | | | WORKING PRESSURE (PSIG) | |
|----------------------|-----------|------------|-------|-------|-------|-------------------------|--------|
| | FEMALE | A | L | E MIN | W | BRASS | 316SS |
| 2CSP - [] | 1/8 | 1 11/16 | 27/32 | 11/32 | 11/16 | 6900 | 10,800 |
| 4CSP - [] | 1/4 | 1 11/16 | 27/32 | 7/16 | 11/16 | 2800 | 4500 |
| 6CSP - [] | 3/8 | 2 | 1 | 37/64 | 1 | 4600 | 7200 |
| 8CSP - [] | 1/2 | 2 1/4 | 1 1/8 | 23/32 | 1 | 2200 | 3500 |

Safety Instructions

1. Do not tighten or loosen any part of a fitting or valve when the system is pressurized. Make sure the system is not pressurized when tightening or loosening a fitting or valve connection.
2. Do not loosen GYROLOK® nut or any product component in order to relieve or bleed down system pressure.
3. Do not exceed pressure-temperature specifications stated in the appropriate catalog.
4. When the application involves use of a toxic or hazardous fluid, exercise extra caution during operation and maintenance.
5. Before assembling new, unused GYROLOK® tube fitting ends, loosen the GYROLOK® nut before inserting the tube to allow full insertion of the tube to the base of the body bore.
6. Always use tubing that is compatible with the fitting or valve material. Tubing appropriate for use with HOKE® products is described in HOKE's Tubing Data Charts. For example, use 316 Stainless Steel fittings with 316 Stainless Steel tubing.
7. Always leave a length of straight tube between the tube bend and the fitting. A tube bent too close to the fitting connection may be a source of leakage.
8. During assembly of the GYROLOK® tube end, always hold the fitting or valve body with one wrench while separately wrench tightening the GYROLOK® nut. Follow the same precaution when disassembling.
9. Always use a HOKE® tube insert (basic part number "T1") when assembling a GYROLOK® fitting to soft, pliable plastic tubing.
10. Always use proper thread lubricants or sealants on tapered pipe threads. Note that thread sealants may have lower temperature ratings than the basic fitting.
11. When installing an NPT ended valve, hold the valve body near the connection with one wrench, while separately wrench tightening the mating pipe. Turn the pipe, not the valve. Follow the same precaution when disconnecting.
12. Do not hold the valve handle when tightening an end connection.
13. Do not use excessive force to open or close a Ball Valve, e.g., Do not use a handle extension.
14. On initial installation, valves may require an adjustment of the packing nut due to storage variations, systems parameters, and cold flow properties of TFE.

FOR YOUR SAFETY: It is solely the responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or property damage.



The Small Bore
Instrumentation Specialists



The HOKE® Brand is just one product offering manufactured and supplied by CIRCOR Instrumentation (CI) a division of CIRCOR International (NYSE:CIR).

CI is a global manufacturer that specializes in developing highly engineered, technically superior small bore instrumentation solutions that consistently deliver benchmark performance, quality & safety for general-to-severe service liquid & gas flow applications.

We specialize in small bore instrumentation products up to 2" that deliver benchmark performance quality & safety; provide the broadest array of superior alloy offerings in the market; decades of proven success in a wide range of industries; a roster of "who's who" customers & projects globally; original "Best Solution" engineering & designs; and are focused on continuous improvement in all aspects of our business.

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