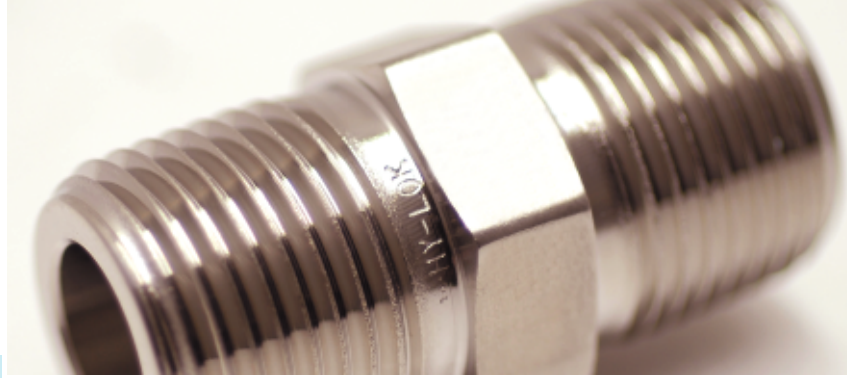




[www.hy-lok.com](http://www.hy-lok.com)

Catalog No. H - 300PF  
Sep. 2011



# Instrument Thread & Weld Fittings

for 1/8" thru 1"



**FLOWTEKNIK**  
SCANDINAVIA APS



**HY-LOK CORPORATION**

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## Instrument Thread Fittings

### Features

1. Precision pipe fittings for instrumentation and process control
2. Fine threads constructed to ensure leak-free & reliable systems
3. Male threads are protected with plastic cap
4. Various materials including SS316, Brass and Carbon steel
5. Many choice of connections and configurations are available

### Temperature Ratings

|              |                                  |
|--------------|----------------------------------|
| SS316        | -325°F - 1200°F (-198°C - 648°C) |
| Brass        | -325°F - 400°F (-198°C - 204°C)  |
| Carbon Steel | -20°F - 350°F (-29°C - 176°C)    |

► PTFE tape applied to male threads limits the maximum temperature to + 450°F (232°C)

### Welding Information

Due to coefficients of expansion and contraction fitting material and material to be welded shall be the same.

All socket weld port have a machined taper at the end, which facilitates proper true fit, consistent assembly and alignment.

### Standard material

316 stainless steel is the standard material. Fitting made from forgings are manufactured from materials to ASTM A-182 and ASME SA-182 and fittings made from bar stock are manufactured from materials to ASTM A-479 and ASME SA-479.

### Pressure ratings

Pressure ratings for Hope weld fittings are in accordance with ANSI B31.3 and safety factor 4:1 is reflected to all working pressure listed.

### Part Number Example & How To Order

#### 1) All Ports Both Ends Type

|                                         |
|-----------------------------------------|
| H · SLA · 8N / S316                     |
| Thread Type                             |
| Name of Fitting                         |
| Pipe Thread Size                        |
| Fitting Material<br>316 Stainless Steel |

#### 2) Reduced Type

|                           |
|---------------------------|
| H · SNR 8 · 4N / BRAS     |
| Thread Type               |
| Name of Fitting           |
| Pipe Thread Size          |
| Reduced Size              |
| Fitting Material<br>BRASS |

#### 3) Union Weld Type

|                                  |
|----------------------------------|
| H · SWFC · 8T / STEL             |
| Weld Type                        |
| Name of Fitting                  |
| Female Pipe Thread               |
| Fitting Material<br>Carbon Steel |

### Name of Thread Fittings

|                        |                         |                               |
|------------------------|-------------------------|-------------------------------|
| H · SLA = Elbow        | H · SXA = Cross         | H · SNA = Hex Nipple          |
| H · SLC = Street Elbow | H · SSA = Hex Coupling  | H · SNR = Hex Reducing Nipple |
| H · SML = Male Elbow   | H · SSR = Red, Coupling | H · SNL = Hex Long Nipple     |
| H · STA = Tee          | H · SHB = Hex Bushing   | H · MFAA = Adapter            |
| H · SRT = Run Tee      | H · SCA = Pipe Cap      | H · MFAC = Reducing Adapter   |
| H · SBT = Branch Tee   | H · SPB = Pipe Plug     | H · SUR = Union Ball Joint    |
| H · SMT = Male Tee     | H · SBE = Close Nipple  | W · P = ISO Parallel Gasket   |

### Name of Weld Fittings

|                            |                                          |
|----------------------------|------------------------------------------|
| H · SWFC = Union           | H · SLD = Female Elbow                   |
| H · SWLA = Union Elbow     | H · SWRM = Pipe Weld to Tube Socket Weld |
| H · SWTA = Union Tee       | H · SWRM = Tube Weld to Tube Socket Weld |
| H · SWXA = Union Cross     |                                          |
| H · SSD = Male Connector   |                                          |
| H · SSB = Female Connector |                                          |
| H · SLG = Male Elbow       |                                          |

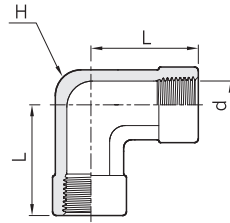
### Pipe Thread Symbol

| Nom.<br>Pipe Size | Symbol | ANSI Pipe<br>Thread (NPT) | BSP / ISO Thread |                 |
|-------------------|--------|---------------------------|------------------|-----------------|
|                   |        |                           | Tapered(7/1)     | Parallel(228/1) |
| 1/8               | 2      | 2N                        | 2R               | 2G              |
| 1/4               | 4      | 4N                        | 4R               | 4G              |
| 3/8               | 6      | 6N                        | 6R               | 6G              |
| 1/2               | 8      | 8N                        | 8R               | 8G              |
| 3/4               | 12     | 12N                       | 12R              | 12G             |
| 1                 | 16     | 16N                       | 16R              | 16G             |

### Tube & Pipe Symbol

| Nom.<br>Tube Size | Symbol | Nom.<br>Pipe Size | Symbol |
|-------------------|--------|-------------------|--------|
| 1/8               | 2T     | 1/8               | 2P     |
| 1/4               | 4T     | 1/4               | 4P     |
| 3/8               | 6T     | 3/8               | 6P     |
| 1/2               | 8T     | 1/2               | 8P     |
| 3/4               | 12T    | 3/4               | 12P    |
| 1                 | 16T    | 1                 | 16P    |

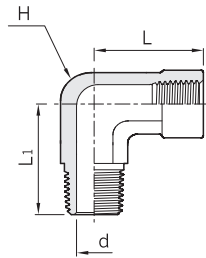
## Elbow H-SLA



### Female NPT Both Ends.

| Part No.      | Pipe Size | L    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|---------------|-----------|------|------|---------------------|--------------------|-----|-------|-----|
|               |           |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|               |           |      |      |                     | psig               | bar | psig  | bar |
| H - SLA - 2N  | 1/8       | 24.0 | 8.9  | 12.7                | 6,500              | 447 | 3,200 | 220 |
| H - SLA - 4N  | 1/4       | 29.0 | 11.7 | 17.5                | 6,600              | 454 | 3,300 | 227 |
| H - SLA - 6N  | 3/8       | 34.5 | 15.0 | 20.6                | 5,300              | 365 | 2,600 | 179 |
| H - SLA - 8N  | 1/2       | 37.0 | 18.7 | 25.4                | 4,900              | 337 | 2,400 | 165 |
| H - SLA - 12N | 3/4       | 46.5 | 23.5 | 31.8                | 4,600              | 316 | 2,300 | 158 |
| H - SLA - 16N | 1         | 48.8 | 29.7 | 42.9                | 4,400              | 303 | 2,200 | 151 |

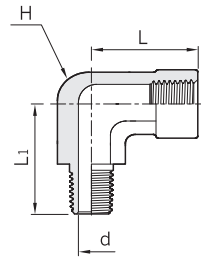
## Street Elbow H-SLC



### Female to Male NPT.

| Part No.      | Pipe Size | L    | L1   | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|---------------|-----------|------|------|------|---------------------|--------------------|-----|-------|-----|
|               |           |      |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|               |           |      |      |      |                     | psig               | bar | psig  | bar |
| H - SLC - 2N  | 1/8       | 24.1 | 19.6 | 4.8  | 12.7                | 6,500              | 447 | 3,200 | 220 |
| H - SLC - 4N  | 1/4       | 29.0 | 26.5 | 7.1  | 17.5                | 6,600              | 454 | 3,300 | 227 |
| H - SLC - 6N  | 3/8       | 34.5 | 28.2 | 9.6  | 20.6                | 5,300              | 365 | 2,600 | 179 |
| H - SLC - 8N  | 1/2       | 37.0 | 35.3 | 11.9 | 25.4                | 4,900              | 337 | 2,400 | 165 |
| H - SLC - 12N | 3/4       | 46.5 | 39.6 | 15.7 | 31.8                | 4,600              | 316 | 2,300 | 158 |
| H - SLC - 16N | 1         | 48.8 | 49.2 | 22.3 | 42.9                | 4,400              | 303 | 2,200 | 151 |

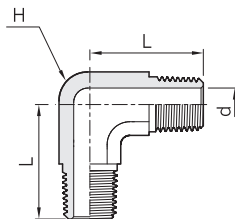
## Reducing Street Elbow H-SLCR



### Female to Male NPT.

| Part No.        | Pipe Size | Male Pipe Size | L    | L1   | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|-----------------|-----------|----------------|------|------|------|---------------------|--------------------|-----|-------|-----|
|                 |           |                |      |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|                 |           |                |      |      |      |                     | psig               | bar | psig  | bar |
| H - SLCR 4 - 2N | 1/4       | 1/8            | 29.0 | 22.4 | 4.8  | 17.5                | 6,500              | 447 | 3,200 | 220 |
| H - SLCR 6 - 4N | 3/8       | 1/4            | 34.5 | 28.2 | 7.1  | 20.6                | 5,300              | 365 | 2,600 | 179 |
| H - SLCR 8 - 4N | 1/2       | 1/4            | 37.0 | 30.5 | 7.1  | 25.4                | 4,900              | 337 | 2,400 | 165 |
| H - SLCR 8 - 6N | 1/2       | 3/8            | 37.0 | 30.5 | 9.6  | 25.4                | 4,900              | 337 | 2,400 | 165 |
| H - SLCR12 - 8N | 3/4       | 1/2            | 46.5 | 39.6 | 11.9 | 31.8                | 4,600              | 316 | 2,300 | 158 |
| H - SLCR16 - 8N | 1         | 1/2            | 48.8 | 44.5 | 11.9 | 42.9                | 4,400              | 303 | 2,200 | 151 |

## Male Elbow H-SML

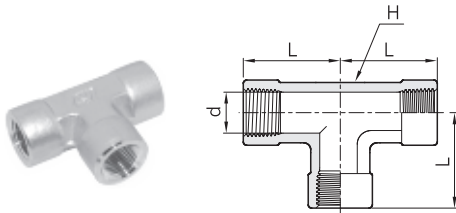


### Male NPT Both Ends.

| Part No.      | Pipe Size | L     | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|---------------|-----------|-------|------|---------------------|--------------------|-----|-------|-----|
|               |           |       |      |                     | SS316 Carbon Steel |     | Brass |     |
|               |           |       |      |                     | psig               | bar | psig  | bar |
| H - SML - 2N  | 1/8       | 19.05 | 4.8  | 12.7                | 10,000             | 689 | 5,000 | 344 |
| H - SML - 4N  | 1/4       | 24.50 | 7.1  | 12.7                | 8,000              | 551 | 4,000 | 275 |
| H - SML - 6N  | 3/8       | 26.90 | 9.6  | 17.5                | 7,800              | 537 | 3,900 | 268 |
| H - SML - 8N  | 1/2       | 33.20 | 11.9 | 20.6                | 7,700              | 530 | 3,800 | 261 |
| H - SML - 12N | 3/4       | 35.30 | 15.7 | 25.4                | 7,300              | 502 | 3,600 | 248 |
| H - SML - 16N | 1         | 44.50 | 22.3 | 31.8                | 5,300              | 365 | 2,600 | 179 |

## Instrument Thread Fittings

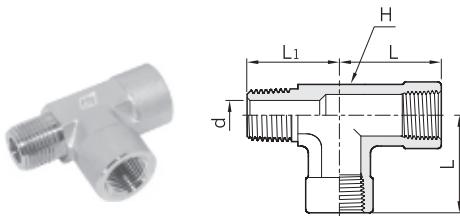
### Tee H-STA



#### Female NPT all ports.

| Part No.      | Pipe Size | L    | d    | H<br>Width<br>Across<br>Flat | Pressure Rating       |     |       |     |
|---------------|-----------|------|------|------------------------------|-----------------------|-----|-------|-----|
|               |           |      |      |                              | SS316<br>Carbon Steel |     | Brass |     |
|               |           |      |      |                              | psig                  | bar | psig  | bar |
| H - STA - 2N  | 1/8       | 24.0 | 8.9  | 12.7                         | 6,500                 | 447 | 3,200 | 220 |
| H - STA - 4N  | 1/4       | 29.0 | 11.7 | 17.5                         | 6,600                 | 454 | 3,300 | 227 |
| H - STA - 6N  | 3/8       | 34.5 | 15.0 | 20.6                         | 5,300                 | 365 | 2,600 | 179 |
| H - STA - 8N  | 1/2       | 37.0 | 18.7 | 25.4                         | 4,900                 | 337 | 2,400 | 165 |
| H - STA - 12N | 3/4       | 46.5 | 23.5 | 31.8                         | 4,600                 | 316 | 2,300 | 158 |
| H - STA - 16N | 1         | 48.8 | 29.7 | 42.9                         | 4,400                 | 303 | 2,200 | 151 |

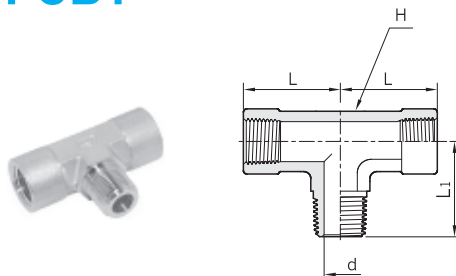
### Run Tee H-SRT



#### Female to Male to Female NPT.

| Part No.      | Pipe Size | L    | L1   | d    | H<br>Width<br>Across<br>Flat | Pressure Rating       |     |       |     |
|---------------|-----------|------|------|------|------------------------------|-----------------------|-----|-------|-----|
|               |           |      |      |      |                              | SS316<br>Carbon Steel |     | Brass |     |
|               |           |      |      |      |                              | psig                  | bar | psig  | bar |
| H - SRT - 2N  | 1/8       | 24.0 | 19.6 | 4.8  | 12.7                         | 6,500                 | 447 | 3,200 | 220 |
| H - SRT - 4N  | 1/4       | 29.0 | 26.5 | 7.1  | 17.5                         | 6,600                 | 454 | 3,300 | 227 |
| H - SRT - 6N  | 3/8       | 34.5 | 28.2 | 9.6  | 20.6                         | 5,300                 | 365 | 2,600 | 179 |
| H - SRT - 8N  | 1/2       | 37.0 | 35.3 | 11.9 | 25.4                         | 4,900                 | 337 | 2,400 | 165 |
| H - SRT - 12N | 3/4       | 46.5 | 39.6 | 15.7 | 31.8                         | 4,600                 | 316 | 2,300 | 158 |
| H - SRT - 16N | 1         | 48.8 | 49.2 | 22.3 | 42.9                         | 4,400                 | 303 | 2,200 | 151 |

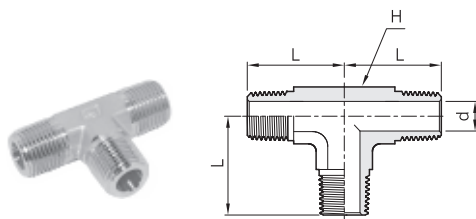
### Branch Tee H-SBT



#### Female to Female to Male NPT.

| Part No.      | Pipe Size | L    | L1   | d    | H<br>Width<br>Across<br>Flat | Pressure Rating       |     |       |     |
|---------------|-----------|------|------|------|------------------------------|-----------------------|-----|-------|-----|
|               |           |      |      |      |                              | SS316<br>Carbon Steel |     | Brass |     |
|               |           |      |      |      |                              | psig                  | bar | psig  | bar |
| H - SBT - 2N  | 1/8       | 24.0 | 19.6 | 4.8  | 12.7                         | 6,500                 | 447 | 3,200 | 220 |
| H - SBT - 4N  | 1/4       | 29.0 | 26.5 | 7.1  | 17.5                         | 6,600                 | 454 | 3,300 | 227 |
| H - SBT - 6N  | 3/8       | 34.5 | 28.2 | 9.6  | 20.6                         | 5,300                 | 365 | 2,600 | 179 |
| H - SBT - 8N  | 1/2       | 37.0 | 35.3 | 11.9 | 25.4                         | 4,900                 | 337 | 2,400 | 165 |
| H - SBT - 12N | 3/4       | 46.5 | 39.6 | 15.7 | 31.8                         | 4,600                 | 316 | 2,300 | 158 |
| H - SBT - 16N | 1         | 48.8 | 49.2 | 22.3 | 42.9                         | 4,400                 | 303 | 2,200 | 151 |

### Male Tee H-SMT



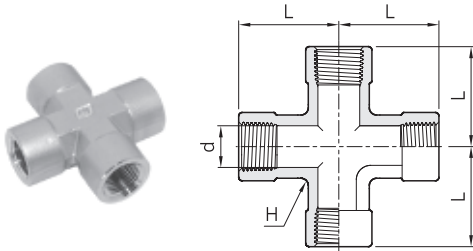
#### Male NPT all ports.

| Part No.      | Pipe Size | L     | d    | H<br>Width<br>Across<br>Flat | Pressure Rating       |     |       |     |
|---------------|-----------|-------|------|------------------------------|-----------------------|-----|-------|-----|
|               |           |       |      |                              | SS316<br>Carbon Steel |     | Brass |     |
|               |           |       |      |                              | psig                  | bar | psig  | bar |
| H - SMT - 2N  | 1/8       | 19.05 | 4.8  | 12.7                         | 10,000                | 689 | 5,000 | 344 |
| H - SMT - 4N  | 1/4       | 24.50 | 7.1  | 12.7                         | 8,000                 | 551 | 4,000 | 275 |
| H - SMT - 6N  | 3/8       | 26.90 | 9.6  | 17.5                         | 7,800                 | 537 | 3,900 | 268 |
| H - SMT - 8N  | 1/2       | 33.20 | 11.9 | 20.6                         | 7,700                 | 530 | 3,800 | 261 |
| H - SMT - 12N | 3/4       | 35.30 | 15.7 | 25.4                         | 7,300                 | 502 | 3,600 | 248 |
| H - SMT - 16N | 1         | 44.50 | 22.3 | 31.8                         | 5,300                 | 365 | 2,600 | 179 |

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.



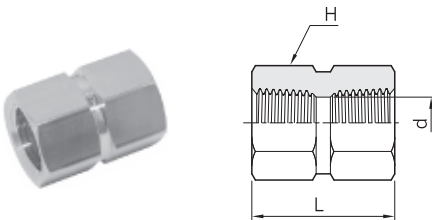
## Cross H-SXA



### Female NPT all ports.

| Part No.      | Pipe Size | L    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|---------------|-----------|------|------|---------------------|--------------------|-----|-------|-----|
|               |           |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|               |           |      |      |                     | psig               | bar | psig  | bar |
| H - SXA - 2N  | 1/8       | 24.0 | 8.9  | 12.7                | 6,500              | 447 | 3,200 | 220 |
| H - SXA - 4N  | 1/4       | 29.0 | 11.7 | 17.5                | 6,600              | 454 | 3,300 | 227 |
| H - SXA - 6N  | 3/8       | 34.5 | 15.0 | 20.6                | 5,300              | 365 | 2,600 | 179 |
| H - SXA - 8N  | 1/2       | 37.0 | 18.7 | 25.4                | 4,900              | 337 | 2,400 | 165 |
| H - SXA - 12N | 3/4       | 46.5 | 23.5 | 31.8                | 4,600              | 316 | 2,300 | 158 |
| H - SXA - 16N | 1         | 48.8 | 29.7 | 42.9                | 4,400              | 303 | 2,200 | 151 |

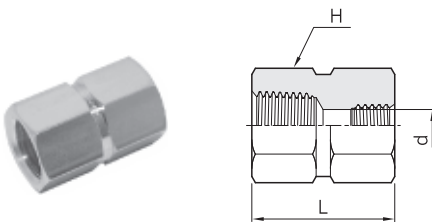
## Hex Coupling H-SSA



### Female NPT Both Ends.

| Part No.      | Pipe Size | L    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|---------------|-----------|------|------|---------------------|--------------------|-----|-------|-----|
|               |           |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|               |           |      |      |                     | psig               | bar | psig  | bar |
| H - SSA - 2N  | 1/8       | 20.3 | 8.9  | 14.20               | 6,500              | 447 | 3,200 | 220 |
| H - SSA - 4N  | 1/4       | 30.0 | 11.7 | 19.05               | 6,600              | 454 | 3,300 | 227 |
| H - SSA - 6N  | 3/8       | 33.0 | 15.0 | 22.20               | 5,300              | 365 | 2,600 | 179 |
| H - SSA - 8N  | 1/2       | 39.4 | 18.7 | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - SSA - 12N | 3/4       | 41.0 | 23.5 | 31.80               | 4,600              | 316 | 2,300 | 158 |
| H - SSA - 16N | 1         | 50.5 | 29.7 | 41.20               | 4,400              | 303 | 2,200 | 151 |

## Hex Reducing Coupling H-SSR

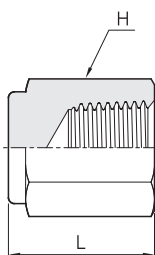


### Female NPT to Reduced Female NPT.

| Part No.       | Pipe Size | Reduced Pipe Size | L    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|----------------|-----------|-------------------|------|------|---------------------|--------------------|-----|-------|-----|
|                |           |                   |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|                |           |                   |      |      |                     | psig               | bar | psig  | bar |
| H - SSR 4 - 2N | 1/4       | 1/8               | 31.2 | 8.9  | 19.05               | 6,500              | 447 | 3,200 | 220 |
| H - SSR 6 - 4N | 3/8       | 1/4               | 34.8 | 11.7 | 22.20               | 5,300              | 365 | 2,600 | 179 |
| H - SSR 8 - 2N | 1/2       | 1/8               | 39.4 | 8.9  | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - SSR 8 - 4N | 1/2       | 1/4               | 44.2 | 11.7 | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - SSR 8 - 6N | 1/2       | 3/8               | 45.0 | 15.0 | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - SSR12 - 4N | 3/4       | 1/4               | 45.7 | 11.7 | 31.80               | 4,600              | 316 | 2,300 | 158 |
| H - SSR12 - 8N | 3/4       | 1/2               | 52.0 | 18.7 | 31.80               | 4,600              | 316 | 2,300 | 158 |
| H - SSR16 - 4N | 1         | 1/4               | 50.8 | 11.7 | 41.20               | 4,600              | 316 | 2,300 | 158 |
| H - SSR16 - 8N | 1         | 1/2               | 55.4 | 18.7 | 41.20               | 4,400              | 303 | 2,200 | 151 |
| H - SSR16-12N  | 1         | 3/4               | 57.0 | 23.5 | 41.20               | 4,400              | 303 | 2,200 | 151 |

## Instrument Thread Fittings

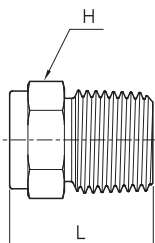
### Pipe Cap H-SCA



### Female NPT.

| Part No.      | Pipe Size | L    | H<br>Width Across Flat |
|---------------|-----------|------|------------------------|
| H - SCA - 2N  | 1/8       | 19.1 | 14.20                  |
| H - SCA - 4N  | 1/4       | 22.9 | 19.05                  |
| H - SCA - 6N  | 3/8       | 26.2 | 22.20                  |
| H - SCA - 8N  | 1/2       | 34.0 | 26.90                  |
| H - SCA - 12N | 3/4       | 36.6 | 31.80                  |
| H - SCA - 16N | 1         | 41.1 | 41.20                  |

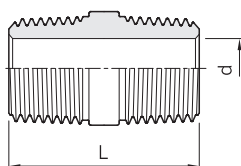
### Pipe Plug H-SPB



### Male NPT.

| Part No.      | Pipe Size | L     | H<br>Width Across Flat |
|---------------|-----------|-------|------------------------|
| H - SPB - 2N  | 1/8       | 19.05 | 11.1                   |
| H - SPB - 4N  | 1/4       | 24.10 | 14.2                   |
| H - SPB - 6N  | 3/8       | 25.00 | 17.4                   |
| H - SPB - 8N  | 1/2       | 30.50 | 22.2                   |
| H - SPB - 12N | 3/4       | 30.50 | 26.9                   |
| H - SPB - 16N | 1         | 38.10 | 34.9                   |

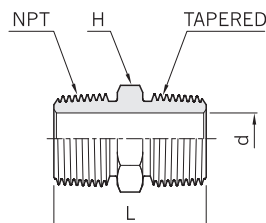
### Close Nipple H-SBE



### Male NPT Both Ends.

| Part No.      | Pipe Size | L     | d    | H<br>Width<br>Across<br>Flat | Pressure Rating       |     |       |     |
|---------------|-----------|-------|------|------------------------------|-----------------------|-----|-------|-----|
|               |           |       |      |                              | SS316<br>Carbon Steel |     | Brass |     |
|               |           |       |      |                              | psig                  | bar | psig  | bar |
| H - SBE - 2N  | 1/8       | 19.05 | 4.8  | 4.8                          | 10,000                | 689 | 5,000 | 344 |
| H - SBE - 4N  | 1/4       | 28.40 | 7.1  | 7.1                          | 8,000                 | 551 | 4,000 | 275 |
| H - SBE - 6N  | 3/8       | 28.40 | 9.6  | 9.6                          | 7,800                 | 537 | 3,900 | 268 |
| H - SBE - 8N  | 1/2       | 31.70 | 11.9 | 11.9                         | 7,700                 | 530 | 3,800 | 261 |
| H - SBE - 12N | 3/4       | 31.70 | 15.7 | 15.7                         | 7,300                 | 502 | 3,600 | 248 |
| H - SBE - 16N | 1         | 47.80 | 22.3 | 22.4                         | 5,300                 | 365 | 2,600 | 179 |

### Hex Nipple H-SNA

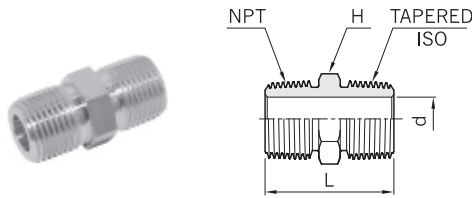


### Male NPT Both Ends.

| Part No.      | Pipe Size | L    | d    | H<br>Width<br>Across<br>Flat | Pressure Rating       |     |       |     |
|---------------|-----------|------|------|------------------------------|-----------------------|-----|-------|-----|
|               |           |      |      |                              | SS316<br>Carbon Steel |     | Brass |     |
|               |           |      |      |                              | psig                  | bar | psig  | bar |
| H - SNA - 2N  | 1/8       | 25.4 | 4.8  | 11.1                         | 10,000                | 689 | 5,000 | 344 |
| H - SNA - 4N  | 1/4       | 35.3 | 7.1  | 14.2                         | 8,000                 | 551 | 4,000 | 275 |
| H - SNA - 6N  | 3/8       | 36.1 | 9.6  | 17.4                         | 7,800                 | 537 | 3,900 | 268 |
| H - SNA - 8N  | 1/2       | 46.7 | 11.9 | 22.2                         | 7,700                 | 530 | 3,800 | 261 |
| H - SNA - 12N | 3/4       | 46.7 | 15.7 | 26.9                         | 7,300                 | 502 | 3,600 | 248 |
| H - SNA - 16N | 1         | 58.7 | 22.3 | 34.9                         | 5,300                 | 365 | 2,600 | 179 |

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

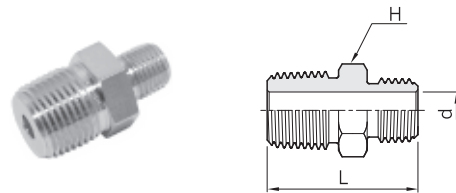
## Hex Nipple H-SNA



### Male NPT to ISO Tapered.

| Part No.   | NPT Thread Size | BSP/ISO Thread Size | L    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|------------|-----------------|---------------------|------|------|---------------------|--------------------|-----|-------|-----|
|            |                 |                     |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|            |                 |                     |      |      |                     | psig               | bar | psig  | bar |
| H-SNA-2NR  | 1/8             | 1/8-28 7/1          | 24.6 | 4.1  | 11.1                | 10,000             | 689 | 5,000 | 344 |
| H-SNA-4NR  | 1/4             | 1/4-19 7/1          | 35.6 | 6.4  | 14.2                | 8,000              | 551 | 4,000 | 275 |
| H-SNA-6NR  | 3/8             | 3/8-19 7/1          | 36.3 | 9.7  | 17.4                | 7,800              | 537 | 3,900 | 268 |
| H-SNA-8NR  | 1/2             | 1/2-14 7/1          | 46.0 | 11.9 | 22.2                | 7,700              | 530 | 3,800 | 261 |
| H-SNA-12NR | 3/4             | 3/4-14 7/1          | 46.7 | 15.7 | 26.9                | 7,300              | 502 | 3,600 | 248 |
| H-SNA-16NR | 1               | 1-11 7/1            | 58.9 | 22.4 | 34.9                | 5,300              | 365 | 2,600 | 179 |

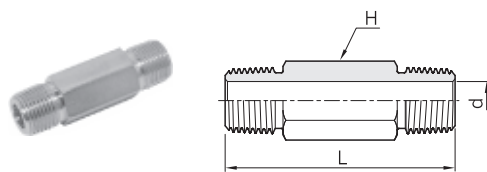
## Hex Reducing Nipple H-SNR



### Male NPT to Reduced Male NPT.

| Part No.    | Pipe Size | Reduced Pipe Size | L    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|-------------|-----------|-------------------|------|------|---------------------|--------------------|-----|-------|-----|
|             |           |                   |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|             |           |                   |      |      |                     | psig               | bar | psig  | bar |
| H-SNR 4-2N  | 1/4       | 1/8               | 30.7 | 4.8  | 14.2                | 8,000              | 551 | 4,000 | 275 |
| H-SNR 6-2N  | 3/8       | 1/8               | 32.0 | 4.8  | 17.4                | 7,800              | 537 | 3,900 | 268 |
| H-SNR 6-4N  | 3/8       | 1/4               | 36.1 | 7.1  | 17.4                | 7,800              | 537 | 3,900 | 268 |
| H-SNR 8-2N  | 1/2       | 1/8               | 37.2 | 4.8  | 22.2                | 7,700              | 530 | 3,800 | 261 |
| H-SNR 8-4N  | 1/2       | 1/4               | 41.7 | 7.1  | 22.2                | 7,700              | 530 | 3,800 | 261 |
| H-SNR 8-6N  | 1/2       | 3/8               | 41.7 | 9.6  | 22.2                | 7,700              | 530 | 3,800 | 261 |
| H-SNR 12-4N | 3/4       | 1/4               | 41.7 | 7.1  | 26.9                | 7,300              | 502 | 3,600 | 248 |
| H-SNR 12-8N | 3/4       | 1/2               | 46.7 | 11.9 | 26.9                | 7,300              | 502 | 3,600 | 248 |
| H-SNR 16-4N | 1         | 1/4               | 49.3 | 7.1  | 34.9                | 5,300              | 365 | 2,600 | 179 |
| H-SNR 16-8N | 1         | 1/2               | 54.1 | 11.9 | 34.9                | 5,300              | 365 | 2,600 | 179 |

## Hex Long Nipple H-SNL



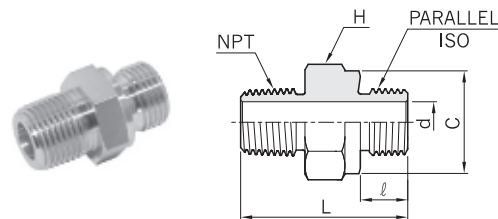
### Male NPT Both Ends.

| Part No.  | Pipe Size | L | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|-----------|-----------|---|------|---------------------|--------------------|-----|-------|-----|
|           |           |   |      |                     | SS316 Carbon Steel |     | Brass |     |
|           |           |   |      |                     | psig               | bar | psig  | bar |
| H-SNL-2N  | 1/8       | ★ | 4.8  | 11.1                | 10,000             | 689 | 5,000 | 344 |
| H-SNL-4N  | 1/4       | ★ | 7.1  | 14.2                | 8,000              | 551 | 4,000 | 275 |
| H-SNL-6N  | 3/8       | ★ | 9.7  | 17.4                | 7,800              | 537 | 3,900 | 268 |
| H-SNL-8N  | 1/2       | ★ | 11.9 | 22.2                | 7,700              | 530 | 3,800 | 261 |
| H-SNL-12N | 3/4       | ★ | 15.7 | 26.9                | 7,300              | 502 | 3,600 | 248 |
| H-SNL-16N | 1         | ★ | 22.4 | 34.9                | 5,300              | 365 | 2,600 | 179 |

★ Specified length to be shown as last designator in part number.

Example : H-SNL-4N L 51(51mm = 2" Length)

## Hex Nipple H-SNA



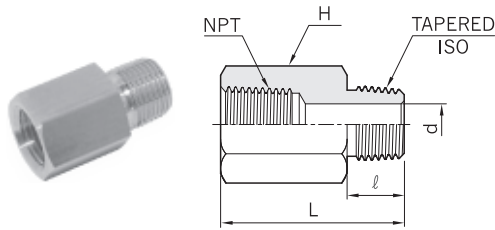
### Male NPT to Male ISO Parallel

| Part No.   | NPT Thread Size | BSP/ISO Thread Size | L    | ℓ    | C    | d    | H Hex | Pressure Rating    |     |       |     |
|------------|-----------------|---------------------|------|------|------|------|-------|--------------------|-----|-------|-----|
|            |                 |                     |      |      |      |      |       | SS316 Carbon Steel |     | Brass |     |
|            |                 |                     |      |      |      |      |       | psig               | bar | psig  | bar |
| H-SNA-2NG  | 1/8             | 1/8-28 228/1        | 27.4 | 7.1  | 13.7 | 4.1  | 14.20 | 10,000             | 689 | 5,000 | 344 |
| H-SNA-4NG  | 1/4             | 1/4-19 228/1        | 36.8 | 11.2 | 17.8 | 5.8  | 19.05 | 8,000              | 551 | 4,000 | 275 |
| H-SNA-6NG  | 3/8             | 3/8-19 228/1        | 37.6 | 11.2 | 21.8 | 7.9  | 22.20 | 7,800              | 537 | 3,900 | 268 |
| H-SNA-8NG  | 1/2             | 1/2-14 228/1        | 45.0 | 14.2 | 26.1 | 11.9 | 26.90 | 7,700              | 530 | 3,800 | 261 |
| H-SNA-12NG | 3/4             | 3/4-14 228/1        | 49.0 | 15.7 | 31.5 | 15.7 | 33.30 | 7,300              | 502 | 3,600 | 248 |
| H-SNA-16NG | 1               | 1-11 228/1          | 56.9 | 18.3 | 38.9 | 19.8 | 41.00 | 5,300              | 365 | 2,600 | 179 |

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

## Instrument Thread Fittings

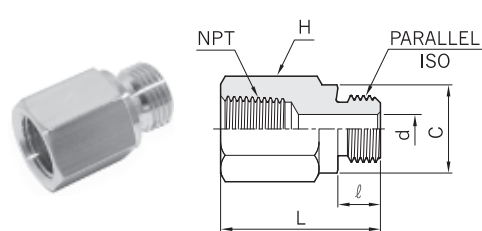
### Adapter H-MFAA



### Female NPT to Male ISO Tapered.

| Part No.        | NPT Thread Size | BSP/ISO Thread Size | L    | ℓ    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|-----------------|-----------------|---------------------|------|------|------|---------------------|--------------------|-----|-------|-----|
|                 |                 |                     |      |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|                 |                 |                     |      |      |      |                     | psig               | bar | psig  | bar |
| H - MFAA - 2RN  | 1/8             | 1/8-28 7/1          | 27.4 | 9.7  | 4.8  | 14.20               | 6,500              | 447 | 3,200 | 220 |
| H - MFAA - 4RN  | 1/4             | 1/4-19 7/1          | 35.8 | 14.2 | 7.1  | 19.05               | 6,600              | 454 | 3,300 | 227 |
| H - MFAA - 6RN  | 3/8             | 3/8-19 7/1          | 37.6 | 14.2 | 9.7  | 22.20               | 5,300              | 365 | 2,600 | 179 |
| H - MFAA - 8RN  | 1/2             | 1/2-14 7/1          | 49.0 | 19.1 | 11.9 | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - MFAA - 12RN | 3/4             | 3/4-14 7/1          | 50.3 | 19.1 | 15.7 | 31.80               | 4,600              | 316 | 2,300 | 158 |
| H - MFAA - 16RN | 1               | 1-11 7/1            | 58.0 | 23.9 | 22.3 | 41.20               | 4,400              | 303 | 2,200 | 151 |

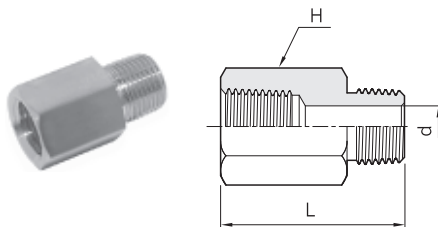
### Adapter H-MFAB



### Female NPT Male ISO Parallel

| Part No.        | NPT Thread Size | BSP/ISO Thread Size | L    | ℓ    | C    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|-----------------|-----------------|---------------------|------|------|------|------|---------------------|--------------------|-----|-------|-----|
|                 |                 |                     |      |      |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|                 |                 |                     |      |      |      |      |                     | psig               | bar | psig  | bar |
| H - MFAB - 2GN  | 1/8             | 1/8-28 228/1        | 24.9 | 7.1  | 13.7 | 4.1  | 14.20               | 6,500              | 447 | 3,200 | 220 |
| H - MFAB - 4GN  | 1/4             | 1/4-19 228/1        | 33.3 | 11.2 | 17.8 | 5.8  | 19.05               | 6,600              | 454 | 3,300 | 227 |
| H - MFAB - 6GN  | 3/8             | 3/8-19 228/1        | 37.8 | 11.2 | 21.8 | 7.9  | 22.20               | 5,300              | 365 | 2,600 | 179 |
| H - MFAB - 8GN  | 1/2             | 1/2-14 228/1        | 43.9 | 14.2 | 26.1 | 11.9 | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - MFAB - 12GN | 3/4             | 3/4-14 228/1        | 50.8 | 15.7 | 31.5 | 15.7 | 33.30               | 4,600              | 316 | 2,300 | 158 |
| H - MFAB - 16GN | 1               | 1-11 228/1          | 53.1 | 18.3 | 38.9 | 19.8 | 41.20               | 4,400              | 303 | 2,200 | 151 |

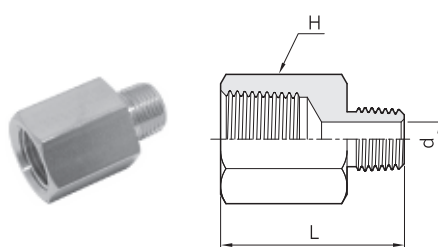
### Adapter H-MFAA



### Female NPT to Same Size Male NPT.

| Part No.       | Pipe Size | L    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|----------------|-----------|------|------|---------------------|--------------------|-----|-------|-----|
|                |           |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|                |           |      |      |                     | psig               | bar | psig  | bar |
| H - MFAA - 2N  | 1/8       | 27.4 | 4.8  | 14.20               | 6,500              | 447 | 3,200 | 220 |
| H - MFAA - 4N  | 1/4       | 35.6 | 7.1  | 19.05               | 6,600              | 454 | 3,300 | 227 |
| H - MFAA - 6N  | 3/8       | 37.8 | 9.6  | 22.20               | 5,300              | 365 | 2,600 | 179 |
| H - MFAA - 8N  | 1/2       | 49.0 | 11.9 | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - MFAA - 12N | 3/4       | 50.3 | 15.7 | 31.70               | 4,600              | 316 | 2,300 | 158 |
| H - MFAA - 16N | 1         | 58.0 | 22.3 | 41.20               | 4,400              | 303 | 2,200 | 151 |

### Reducing Adapter H-MFAC

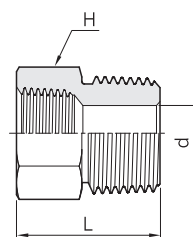


### Female NPT to Reduced Male NPT.

| Part No.         | Female Pipe Size | Male Pipe Size | L    | d    | H Width Across Flat | Pressure Rating    |     |       |     |
|------------------|------------------|----------------|------|------|---------------------|--------------------|-----|-------|-----|
|                  |                  |                |      |      |                     | SS316 Carbon Steel |     | Brass |     |
|                  |                  |                |      |      |                     | psig               | bar | psig  | bar |
| H - MFAC 2 - 4N  | 1/4              | 1/8            | 31.5 | 4.8  | 19.05               | 6,600              | 454 | 3,300 | 227 |
| H - MFAC 2 - 6N  | 3/8              | 1/8            | 33.5 | 4.8  | 22.20               | 5,300              | 365 | 2,600 | 179 |
| H - MFAC 4 - 6N  | 3/8              | 1/4            | 37.8 | 7.1  | 22.20               | 5,300              | 365 | 2,600 | 179 |
| H - MFAC 2 - 8N  | 1/2              | 1/8            | 40.0 | 4.8  | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - MFAC 4 - 8N  | 1/2              | 1/4            | 44.5 | 7.1  | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - MFAC 6 - 8N  | 1/2              | 3/8            | 44.5 | 9.6  | 26.90               | 4,900              | 337 | 2,400 | 165 |
| H - MFAC 4 - 12N | 3/4              | 1/4            | 45.7 | 7.1  | 31.80               | 4,600              | 316 | 2,300 | 158 |
| H - MFAC 6 - 12N | 3/4              | 3/8            | 45.7 | 9.6  | 31.80               | 4,600              | 316 | 2,300 | 158 |
| H - MFAC 8 - 12N | 3/4              | 1/2            | 51.1 | 11.9 | 31.80               | 4,600              | 316 | 2,300 | 158 |
| H - MFAC 4 - 16N | 1                | 1/4            | 50.8 | 7.1  | 41.20               | 4,400              | 303 | 2,200 | 151 |
| H - MFAC 8 - 16N | 1                | 1/2            | 55.3 | 11.9 | 41.20               | 4,400              | 303 | 2,200 | 151 |
| H - MFAC16 - 16N | 1                | 1              | 54.9 | 15.7 | 41.20               | 4,400              | 303 | 2,200 | 151 |

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

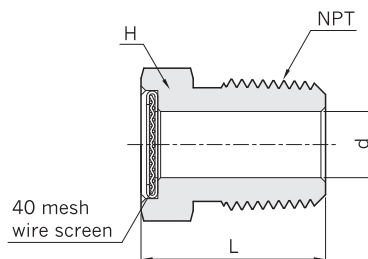
## Hex Bushing H-SHB



### Male NPT to Reduced Female NPT.

| Part No.     | Male Pipe Size | Female Pipe Size | L    | d    | H Width Across Flat | Working Pressure (PSIG) |       |              | Pressure Rating    |     |       |     |
|--------------|----------------|------------------|------|------|---------------------|-------------------------|-------|--------------|--------------------|-----|-------|-----|
|              |                |                  |      |      |                     | 316SS                   | Brass | Carbon Steel | SS316 Carbon Steel |     | Brass |     |
|              |                |                  |      |      |                     |                         |       |              | psig               | bar | psig  | bar |
| H-SHB 4-2N   | 1/4            | 1/8              | 26.7 | 7.1  | 14.20               | 5600                    | 3100  | 6200         | 6,500              | 447 | 3,200 | 220 |
| H-SHB 6-2N   | 3/8            | 1/8              | 21.8 | 8.5  | 17.40               |                         |       |              | 6,500              | 447 | 3,200 | 220 |
| H-SHB 6-4N   | 3/8            | 1/4              | 30.0 | 9.6  | 19.05               | 5200                    | 3100  | 6200         | 6,600              | 454 | 3,300 | 227 |
| H-SHB 8-2N   | 1/2            | 1/8              | 27.4 | 8.5  | 22.20               | -                       | -     | -            | 6,500              | 447 | 3,200 | 220 |
| H-SHB 8-4N   | 1/2            | 1/4              | 27.4 | 11.7 | 22.20               | 5800                    | 3100  | 6200         | 6,600              | 454 | 3,300 | 227 |
| H-SHB 8-6N   | 1/2            | 3/8              | 35.6 | 11.9 | 22.20               | 4400                    | 2500  | 5100         | 5,300              | 365 | 2,600 | 179 |
| H-SHB 12-4N  | 3/4            | 1/4              | 27.4 | 11.4 | 26.90               | -                       | -     | -            | 6,600              | 454 | 3,300 | 227 |
| H-SHB 12-6N  | 3/4            | 3/8              | 27.4 | 15.0 | 26.90               | -                       | -     | -            | 5,300              | 365 | 2,600 | 179 |
| H-SHB 12-8N  | 3/4            | 1/2              | 41.4 | 15.7 | 26.90               | -                       | -     | -            | 4,900              | 337 | 2,400 | 165 |
| H-SHB 16-4N  | 1              | 1/4              | 34.8 | 11.4 | 34.90               | -                       | -     | -            | 6,600              | 454 | 3,300 | 227 |
| H-SHB 16-8N  | 1              | 1/2              | 34.8 | 18.5 | 34.90               | -                       | -     | -            | 4,900              | 337 | 2,400 | 165 |
| H-SHB 16-12N | 1              | 3/4              | 47.0 | 22.4 | 34.90               | -                       | -     | -            | 4,600              | 316 | 2,300 | 158 |

## Vent Protector H-SBS



### Male NPT

| Part No.  | Pipe Size | L    | d    | H Width Across Flat |
|-----------|-----------|------|------|---------------------|
| H-SBS- 4N | 1/4       | 19.8 | 7.1  | 14.2                |
| H-SBS- 6N | 3/8       | 20.6 | 10.4 | 17.4                |
| H-SBS- 8N | 1/2       | 26.2 | 12.7 | 22.2                |
| H-SBS-12N | 3/4       | 26.9 | 18.3 | 26.9                |

Hy-Lok vent protectors, more commonly known as mud dauber fittings, protect open ends of instruments, tubing, outlet vents, and bleed-off lines

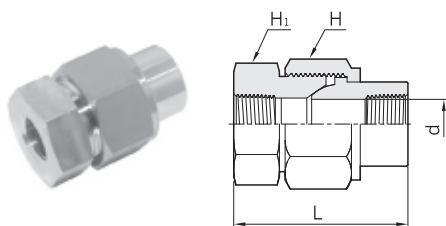
The mesh wire screen prevents foreign objects, such as mud dauber insects, from entering and clogging various systems and causing damage.

Vent protectors are available in stainless steel and brass.

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

## Instrument Thread Fittings

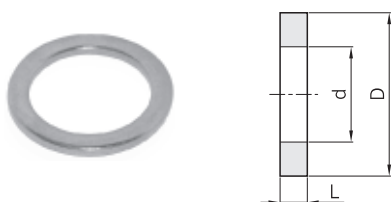
### Union Ball Joint H-SUR



### Female NPT Both Ends.

| Part No.      | Pipe Size | L    | d    | H<br>Width<br>Across<br>Flat | H1<br>Width<br>Across<br>Flat | Pressure Rating       |     |       |     |
|---------------|-----------|------|------|------------------------------|-------------------------------|-----------------------|-----|-------|-----|
|               |           |      |      |                              |                               | SS316<br>Carbon Steel |     | Brass |     |
|               |           |      |      |                              |                               | psig                  | bar | psig  | bar |
| H - SUR - 2N  | 1/8       | 45.7 | 6.9  | 28.6                         | 23.8                          | 6,500                 | 447 | 3,200 | 220 |
| H - SUR - 4N  | 1/4       | 59.4 | 9.1  | 34.9                         | 30.2                          | 6,600                 | 454 | 3,300 | 227 |
| H - SUR - 6N  | 3/8       | 63.5 | 13.2 | 38.1                         | 33.3                          | 5,300                 | 365 | 2,600 | 179 |
| H - SUR - 8N  | 1/2       | 68.6 | 15.7 | 44.5                         | 41.3                          | 4,900                 | 337 | 2,400 | 165 |
| H - SUR - 12N | 3/4       | 79.2 | 22.4 | 50.8                         | 47.6                          | 4,600                 | 316 | 2,300 | 158 |
| H - SUR - 16N | 1         | 90.4 | 26.2 | 63.5                         | 60.3                          | 4,400                 | 303 | 2,200 | 151 |

### ISO Parallel Gasket W-P



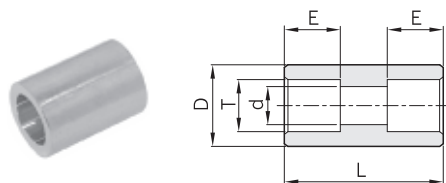
| Part No.             | Pipe Size | L   | D    | d    |
|----------------------|-----------|-----|------|------|
| W - P16.0 D10.2 T2.0 | 1/8       | 2.0 | 16.0 | 10.0 |
| W - P19.5 D13.4 T2.0 | 1/4       | 2.0 | 19.5 | 14.0 |
| W - P24.0 D17.0 T2.0 | 3/8       | 2.0 | 24.0 | 17.0 |
| W - P29.0 D21.2 T2.0 | 1/2       | 2.0 | 29.0 | 22.0 |
| W - P34.5 D27.2 T2.0 | 3/4       | 2.0 | 34.5 | 27.0 |
| W - P42.0 D34.0 T2.0 | 1         | 2.0 | 42.0 | 34.0 |

Used to provide a seal with ISO parallel thread. (Material is Copper only)

All dimensions are in millimeters unless otherwise specified. Dimensions are for reference only, subject to change.

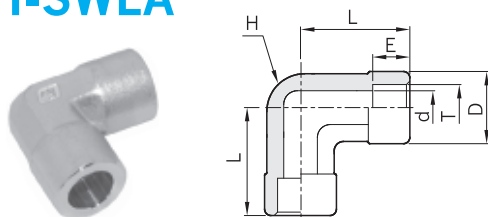
## Instrument Weld Fittings

### Union H-SWFC



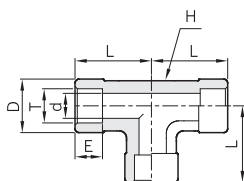
| Part No.       | T<br>Tube<br>O.D | L    | D    | d    | E    | Working Pressure<br>SS316 |     |
|----------------|------------------|------|------|------|------|---------------------------|-----|
|                |                  |      |      |      |      | psig                      | bar |
| H - SWFC - 4T  | 1/4              | 19.1 | 13.0 | 4.6  | 7.1  | 10,000                    | 689 |
| H - SWFC - 6T  | 3/8              | 22.4 | 15.8 | 7.1  | 7.9  | 7,600                     | 523 |
| H - SWFC - 8T  | 1/2              | 26.9 | 19.0 | 10.2 | 9.7  | 6,200                     | 427 |
| H - SWFC - 10T | 5/8              | 30.2 | 24.0 | 12.7 | 10.4 | 6,400                     | 440 |
| H - SWFC - 12T | 3/4              | 33.3 | 26.9 | 15.7 | 11.2 | 5,500                     | 378 |
| H - SWFC - 16T | 1                | 36.6 | 35.0 | 22.1 | 15.7 | 5,200                     | 358 |

### Union Elbow H-SWLA



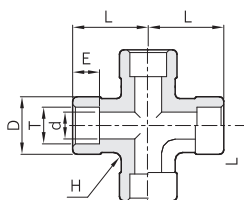
| Part No.       | T<br>Tube<br>O.D | L    | D    | d    | E    | H<br>Width<br>Across<br>Flat | Working Pressure<br>SS316 |     |
|----------------|------------------|------|------|------|------|------------------------------|---------------------------|-----|
|                |                  |      |      |      |      |                              | psig                      | bar |
| H - SWLA - 4T  | 1/4              | 21.8 | 13.4 | 4.6  | 7.1  | 11.1                         | 11,300                    | 778 |
| H - SWLA - 6T  | 3/8              | 26.4 | 15.8 | 7.1  | 7.9  | 12.7                         | 8,400                     | 578 |
| H - SWLA - 8T  | 1/2              | 29.7 | 20.6 | 10.2 | 9.7  | 17.4                         | 7,800                     | 537 |
| H - SWLA - 10T | 5/8              | 36.1 | 23.8 | 12.7 | 10.4 | 20.6                         | 6,700                     | 461 |
| H - SWLA - 12T | 3/4              | 37.0 | 28.6 | 15.7 | 11.2 | 25.4                         | 6,700                     | 461 |
| H - SWLA - 16T | 1                | 46.5 | 35.0 | 22.1 | 15.7 | 31.8                         | 6,100                     | 420 |

## Union Tee H-SWTA



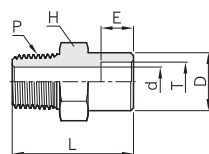
| Part No.   | T<br>Tube<br>O.D. | L    | D    | d    | E    | H<br>Width<br>Across<br>Flat | Working Pressure<br>SS316 |     |
|------------|-------------------|------|------|------|------|------------------------------|---------------------------|-----|
|            |                   |      |      |      |      |                              | psig                      | bar |
| H-SWTA-2T  | 1/8               | 15.0 | 13.4 | 2.3  | 2.5  | 11.1                         | 11,800                    | 813 |
| H-SWTA-4T  | 1/4               | 21.8 | 13.4 | 4.6  | 7.1  | 11.1                         | 11,300                    | 778 |
| H-SWTA-6T  | 3/8               | 26.4 | 15.8 | 7.1  | 7.9  | 12.7                         | 8,400                     | 578 |
| H-SWTA-8T  | 1/2               | 29.7 | 20.6 | 10.2 | 9.7  | 17.4                         | 7,800                     | 537 |
| H-SWTA-10T | 5/8               | 36.1 | 23.8 | 12.7 | 10.4 | 20.6                         | 6,700                     | 461 |
| H-SWTA-12T | 3/4               | 37.0 | 28.6 | 15.7 | 11.2 | 25.4                         | 6,700                     | 461 |
| H-SWTA-16T | 1                 | 46.5 | 35.0 | 22.1 | 15.7 | 31.8                         | 6,100                     | 420 |

## Union Cross H-SWXA



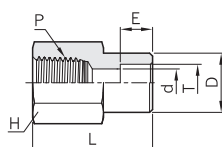
| Part No.   | T<br>Tube<br>O.D. | L    | D    | d    | E    | H<br>Width<br>Across<br>Flat | Working Pressure<br>SS316 |     |
|------------|-------------------|------|------|------|------|------------------------------|---------------------------|-----|
|            |                   |      |      |      |      |                              | psig                      | bar |
| H-SWXA-4T  | 1/4               | 21.8 | 13.4 | 4.6  | 7.1  | 11.1                         | 11,300                    | 778 |
| H-SWXA-6T  | 3/8               | 26.4 | 15.8 | 7.1  | 7.9  | 12.7                         | 8,400                     | 578 |
| H-SWXA-8T  | 1/2               | 29.7 | 20.6 | 10.2 | 9.7  | 17.4                         | 7,800                     | 537 |
| H-SWXA-12T | 3/4               | 37.0 | 28.6 | 15.7 | 11.2 | 25.4                         | 6,700                     | 461 |
| H-SWXA-16T | 1                 | 46.5 | 35.0 | 22.1 | 15.7 | 31.8                         | 6,100                     | 420 |

## Male Connector H-SSD



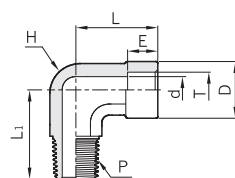
| Part No.   | T<br>Tube<br>O.D. | P-NPT<br>Male<br>Pipe<br>Size | L    | D    | d    | E   | H<br>Width<br>Across<br>Flat | Working Pressure<br>SS316 |     |
|------------|-------------------|-------------------------------|------|------|------|-----|------------------------------|---------------------------|-----|
|            |                   |                               |      |      |      |     |                              | psig                      | bar |
| H-SSD4T-4N | 1/4               | 1/4                           | 29.2 | 12.2 | 4.6  | 7.1 | 14.20                        | 7,500                     | 516 |
| H-SSD6T-4N | 3/8               | 1/4                           | 31.8 | 15.3 | 7.1  | 7.9 | 15.80                        | 7,500                     | 516 |
| H-SSD6T-6N | 3/8               | 3/8                           | 31.8 | 15.3 | 7.1  | 7.9 | 17.40                        | 7,300                     | 502 |
| H-SSD6T-8N | 3/8               | 1/2                           | 37.3 | 15.3 | 7.1  | 7.9 | 22.20                        | 7,200                     | 496 |
| H-SSD8T-4N | 1/2               | 1/4                           | 33.3 | 18.5 | 7.1  | 9.7 | 19.05                        | 6,200                     | 427 |
| H-SSD8T-6N | 1/2               | 3/8                           | 33.3 | 18.5 | 9.4  | 9.7 | 19.05                        | 6,200                     | 427 |
| H-SSD8T-8N | 1/2               | 1/2                           | 38.9 | 18.5 | 10.2 | 9.7 | 22.20                        | 6,200                     | 427 |

## Female Connector H-SSB



| Part No.     | T<br>Tube<br>O.D. | P-NPT<br>Female<br>Pipe<br>Size | L    | D    | d    | E    | H<br>Width<br>Across<br>Flat | Working Pressure<br>SS316 |     |
|--------------|-------------------|---------------------------------|------|------|------|------|------------------------------|---------------------------|-----|
|              |                   |                                 |      |      |      |      |                              | psig                      | bar |
| H-SSB 2T-2N  | 1/8               | 1/8                             | 21.1 | 7.4  | 2.3  | 2.5  | 14.20                        | 6,100                     | 420 |
| H-SSB 4T-2N  | 1/4               | 1/8                             | 26.7 | 12.2 | 4.6  | 7.1  | 14.20                        | 6,100                     | 420 |
| H-SSB 4T-4N  | 1/4               | 1/4                             | 30.0 | 12.2 | 4.6  | 7.1  | 19.05                        | 6,200                     | 427 |
| H-SSB 6T-4N  | 3/8               | 1/4                             | 31.5 | 15.3 | 7.1  | 7.9  | 19.05                        | 6,200                     | 427 |
| H-SSB 8T-6N  | 1/2               | 3/8                             | 34.5 | 18.5 | 10.2 | 9.7  | 22.20                        | 5,000                     | 344 |
| H-SSB 8T-8N  | 1/2               | 1/2                             | 40.4 | 18.5 | 10.2 | 9.7  | 26.90                        | 4,600                     | 316 |
| H-SSB10T-8N  | 5/8               | 1/2                             | 41.9 | 23.4 | 12.7 | 10.4 | 24.90                        | 4,600                     | 316 |
| H-SSB12T-12N | 3/4               | 3/4                             | 43.9 | 26.4 | 15.7 | 11.2 | 33.30                        | 4,300                     | 296 |

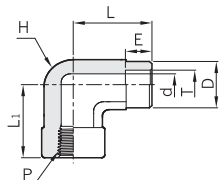
## Male Elbow H-SLG



| Part No.     | T<br>Tube<br>O.D. | P-NPT<br>Male<br>Pipe<br>Size | L    | L <sub>1</sub> | D    | d    | E    | H<br>Width<br>Across<br>Flat | Working Pressure<br>SS316 |     |
|--------------|-------------------|-------------------------------|------|----------------|------|------|------|------------------------------|---------------------------|-----|
|              |                   |                               |      |                |      |      |      |                              | psig                      | bar |
| H-SLG 4T-4N  | 1/4               | 1/4                           | 20.1 | 26.7           | 15.8 | 4.6  | 7.1  | 12.7                         | 7,500                     | 516 |
| H-SLG 6T-4N  | 3/8               | 1/4                           | 26.4 | 26.7           | 15.8 | 7.1  | 7.9  | 12.7                         | 7,500                     | 516 |
| H-SLG 6T-6N  | 3/8               | 3/8                           | 24.6 | 29.7           | 20.6 | 7.1  | 7.9  | 17.4                         | 7,300                     | 502 |
| H-SLG 6T-8N  | 3/8               | 1/2                           | 25.9 | 36.0           | 23.8 | 7.1  | 7.9  | 20.6                         | 7,200                     | 496 |
| H-SLG 8T-8N  | 1/2               | 1/2                           | 27.4 | 36.0           | 23.8 | 10.2 | 9.7  | 20.6                         | 6,200                     | 427 |
| H-SLG12T-12N | 1/4               | 3/4                           | 37.0 | 37.0           | 28.6 | 15.7 | 11.2 | 25.4                         | 6,700                     | 461 |

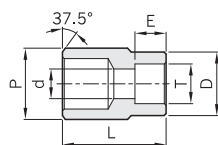


## Female Elbow H-SLD



| Part No.       | T<br>Tube<br>O.D. | P-NPT<br>Female<br>Pipe Size | L    | L <sub>1</sub> | D    | d    | E   | H<br>Width<br>Across<br>Flat | Working Pressure<br>SS316 |     |
|----------------|-------------------|------------------------------|------|----------------|------|------|-----|------------------------------|---------------------------|-----|
|                |                   |                              |      |                |      |      |     |                              | psig                      | bar |
| H - SLD4T - 4N | 1/4               | 1/4                          | 22.9 | 29.7           | 12.2 | 4.8  | 7.1 | 17.4                         | 6,200                     | 427 |
| H - SLD6T - 4N | 3/8               | 1/4                          | 25.1 | 29.7           | 15.3 | 4.1  | 7.9 | 17.4                         | 7,000                     | 482 |
| H - SLD6T - 8N | 3/8               | 1/2                          | 28.7 | 37.0           | 15.3 | 7.1  | 7.9 | 25.4                         | 5,400                     | 372 |
| H - SLD8T - 8N | 1/2               | 1/2                          | 30.2 | 37.0           | 18.5 | 10.2 | 9.7 | 25.4                         | 5,400                     | 372 |

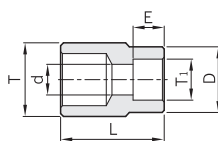
## Pipe Weld to Tube Socket Weld H-SWRM



| Part No.         | P<br>Pipe<br>Size | T<br>Tube<br>Socket<br>Size | L    | D    | d    | E   | Working Pressure<br>SS316 |     |
|------------------|-------------------|-----------------------------|------|------|------|-----|---------------------------|-----|
|                  |                   |                             |      |      |      |     | psig                      | bar |
| H - SWRM 4P - 4T | 1/4               | 1/4                         | 22.4 | 13.7 | 4.6  | 7.1 | 9,600                     | 661 |
| H - SWRM 6P - 6T | 3/8               | 3/8                         | 26.2 | 15.3 | 7.1  | 7.9 | 7,600                     | 523 |
| H - SWRM 6P - 8T | 3/8               | 1/2                         | 27.9 | 18.5 | 10.2 | 9.7 | 6,200                     | 427 |
| H - SWRM 8P - 4T | 1/2               | 1/4                         | 28.4 | 12.2 | 4.6  | 7.1 | 7,300                     | 502 |
| H - SWRM 8P - 6T | 1/2               | 3/8                         | 28.4 | 15.3 | 7.1  | 7.9 | 7,300                     | 502 |
| H - SWRM 8P - 8T | 1/2               | 1/2                         | 30.2 | 18.5 | 10.2 | 9.7 | 6,200                     | 427 |
| H - SWRM12P - 6T | 3/4               | 3/8                         | 38.1 | 15.3 | 7.1  | 7.9 | 6,200                     | 427 |
| H - SWRM12P - 8T | 3/4               | 1/2                         | 38.1 | 18.5 | 10.2 | 9.7 | 6,200                     | 427 |

Used to reduce from a pipe butt weld or pipe socket weld to a smaller tube size

## Tube Weld to Tube Socket Weld H-SWRM



| Part No.         | T<br>Tube<br>Size | T <sub>1</sub><br>Tube<br>Socket<br>Size | L    | D    | d    | E   | Working Pressure<br>SS316 |     |
|------------------|-------------------|------------------------------------------|------|------|------|-----|---------------------------|-----|
|                  |                   |                                          |      |      |      |     | psig                      | bar |
| H - SWRM 4T - 2T | 1/4               | 1/8                                      | 14.2 | 7.4  | 2.3  | 2.5 | 11,800                    | 813 |
| H - SWRM 6T - 4T | 3/8               | 1/4                                      | 19.1 | 12.2 | 4.6  | 7.1 | 7,700                     | 530 |
| H - SWRM 8T - 4T | 1/2               | 1/4                                      | 22.4 | 18.2 | 4.6  | 7.1 | 7,000                     | 482 |
| H - SWRM 8T - 6T | 1/2               | 3/8                                      | 22.4 | 15.7 | 8.1  | 7.9 | 7,000                     | 482 |
| H - SWRM12T - 8T | 3/4               | 1/2                                      | 28.4 | 18.5 | 10.2 | 9.7 | 5,900                     | 406 |
| H - SWRM16T - 8T | 1                 | 1/2                                      | 35.1 | 18.5 | 10.2 | 9.7 | 5,600                     | 344 |

Used to reduce from a tube butt weld or tube socket weld to a smaller tube size



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