

# Hy-Lok Instrument Thread Fittings

(for Use with 1/8" thru 1" Piping Systems)

Catalog No. H-300PF  
Feb. 2003

## 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 )

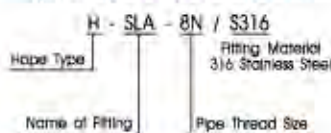
## Pressure Ratings

| Size Designator | NPT Size | 316 Stainless Steel |     |        |     | Brass |     |        |     | Carbon Steel |     |        |     |
|-----------------|----------|---------------------|-----|--------|-----|-------|-----|--------|-----|--------------|-----|--------|-----|
|                 |          | Male                |     | Female |     | Male  |     | Female |     | Male         |     | Female |     |
|                 |          | psig                | bar | psig   | bar | psig  | bar | psig   | bar | psig         | bar | psig   | bar |
| 1               | 1/16     | 11,000              | 757 | 6700   | 461 | 5500  | 378 | 3300   | 227 | 11,000       | 757 | 6700   | 461 |
| 2               | 1/8      | 10,000              | 689 | 6500   | 447 | 6000  | 344 | 3200   | 220 | 10,000       | 689 | 6500   | 447 |
| 4               | 1/4      | 8000                | 551 | 6600   | 454 | 4000  | 275 | 3300   | 227 | 8000         | 551 | 6600   | 454 |
| 6               | 3/8      | 7800                | 537 | 5300   | 365 | 3900  | 268 | 2600   | 179 | 7800         | 537 | 5300   | 365 |
| 8               | 1/2      | 7700                | 530 | 4900   | 337 | 3800  | 261 | 2400   | 165 | 7700         | 530 | 4900   | 337 |
| 12              | 3/4      | 7300                | 502 | 4600   | 316 | 3600  | 248 | 2300   | 158 | 7300         | 502 | 4600   | 316 |
| 16              | 1        | 5300                | 365 | 4400   | 303 | 2600  | 179 | 2200   | 151 | 5300         | 365 | 4400   | 303 |
| 20              | 1 1/4    | 6000                | 413 | 5000   | 344 | 3000  | 206 | 2500   | 172 | 6000         | 413 | 5000   | 344 |
| 24              | 1 1/2    | 5000                | 344 | 4600   | 316 | 2500  | 172 | 2300   | 158 | 5000         | 344 | 4600   | 316 |
| 32              | 2        | 3900                | 268 | 3900   | 268 | 1900  | 130 | 1900   | 130 | 3900         | 268 | 3900   | 268 |

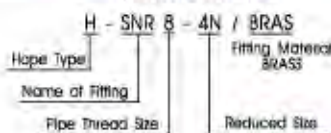
- ▶ Working pressures calculated are reference only
- ▶ Working pressures calculated as per Process Piping Code ANSI B31.3 with allowable stress 20,000psi / SS316, 10,000psi / Brass, 20,000psi / Carbon steel and for working pressure in accordance with Power Piping Code ANSI B31.1 simply calculate applying a factor of .94 (94%) to above chart.
- ▶ Due to larger outer diameter of female threads pressure ratings of female are lower than male threads.
- ▶ To determine kPa, multiply psig by 6.89
- ▶ Pressure ratings of Hex Bushing (H-SHB) are not covered with this pressure rating table therefore indicated in its dimensional table.

## PART NUMBER EXAMPLE & HOW TO ORDER

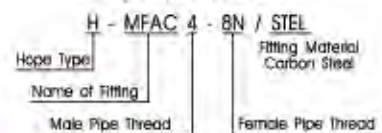
### 1) ALL PORTS BOTH ENDS TYPE



### 2) REDUCED TYPE



### 3) ADAPTER TYPE



## Name of Fittings

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

## Pipe Thread Symbol

| Nom. Pipe Size | Symbol | ANSI Pipe 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             |



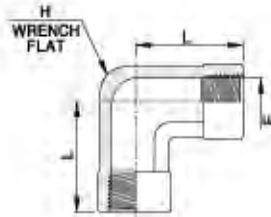
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# Hy-Lok Instrument Thread Fittings

## ELBOW (H-SLA)

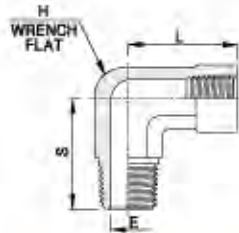
Female NPT both ends.



| Part Number | Pipe Size | L    | E    | H Wrench Flat |
|-------------|-----------|------|------|---------------|
| H-SLA-2N    | 1/8       | 24.0 | 8.9  | 12.7          |
| H-SLA-4N    | 1/4       | 29.0 | 11.7 | 17.5          |
| H-SLA-6N    | 3/8       | 34.5 | 15.0 | 20.6          |
| H-SLA-8N    | 1/2       | 37.0 | 18.7 | 25.4          |
| H-SLA-12N   | 3/4       | 46.5 | 23.5 | 31.8          |
| H-SLA-16N   | 1         | 48.8 | 29.7 | 42.9          |

## STREET ELBOW (H-SLC)

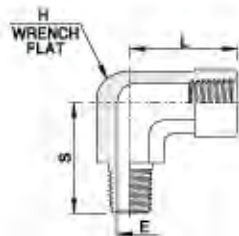
Female to male NPT.



| Part Number | Pipe Size | L    | S    | E    | H Wrench Flat |
|-------------|-----------|------|------|------|---------------|
| H-SLC-2N    | 1/8       | 24.1 | 19.6 | 4.8  | 12.7          |
| H-SLC-4N    | 1/4       | 29.0 | 26.5 | 7.1  | 17.5          |
| H-SLC-6N    | 3/8       | 34.5 | 28.2 | 9.6  | 20.6          |
| H-SLC-8N    | 1/2       | 37.0 | 35.3 | 11.9 | 25.4          |
| H-SLC-12N   | 3/4       | 46.5 | 39.6 | 15.7 | 31.8          |
| H-SLC-16N   | 1         | 48.8 | 49.2 | 22.3 | 42.9          |

## REDUCING STREET ELBOW (H-SLCR)

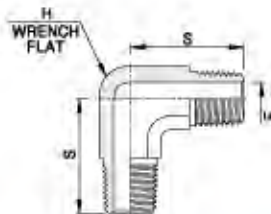
Female to male NPT.



| Part Number | Pipe Size | Male Pipe Size | L    | S    | E    | H Wrench Flat |
|-------------|-----------|----------------|------|------|------|---------------|
| H-SLCR 4-2N | 1/4       | 1/8            | 29.0 | 22.4 | 4.8  | 17.5          |
| H-SLCR 6-4N | 3/8       | 1/4            | 34.5 | 28.2 | 7.1  | 20.6          |
| H-SLCR 8-4N | 1/2       | 1/4            | 37.0 | 30.5 | 7.1  | 25.4          |
| H-SLCR 8-6N | 1/2       | 3/8            | 37.0 | 30.5 | 9.6  | 25.4          |
| H-SLCR12-8N | 3/4       | 1/2            | 46.5 | 39.6 | 11.9 | 31.8          |
| H-SLCR16-8N | 1         | 1/2            | 48.8 | 44.5 | 11.9 | 42.9          |

## MALE ELBOW (H-SML)

Male NPT both ends.



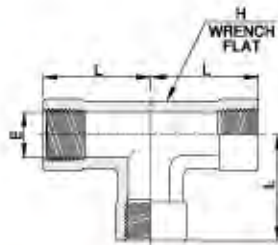
| Part Number | Pipe Size | S     | E    | H Wrench Flat |
|-------------|-----------|-------|------|---------------|
| H-SML-2N    | 1/8       | 19.05 | 4.8  | 12.7          |
| H-SML-4N    | 1/4       | 24.5  | 7.1  | 12.7          |
| H-SML-6N    | 3/8       | 26.9  | 9.6  | 17.5          |
| H-SML-8N    | 1/2       | 33.2  | 11.9 | 20.6          |
| H-SML-12N   | 3/4       | 35.3  | 15.7 | 25.4          |
| H-SML-16N   | 1         | 44.5  | 22.3 | 31.8          |

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

# Hy-Lok Instrument Thread Fittings

## TEE (H-STA)

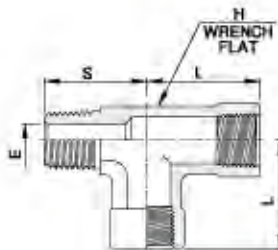
Female NPT all ports.



| Part Number | Pipe Size | L    | E    | H Wrench Flat |
|-------------|-----------|------|------|---------------|
| H-STA-2N    | 1/8       | 24.0 | 8.9  | 12.7          |
| H-STA-4N    | 1/4       | 29.0 | 11.7 | 17.5          |
| H-STA-6N    | 3/8       | 34.5 | 15.0 | 20.6          |
| H-STA-8N    | 1/2       | 37.0 | 18.7 | 25.4          |
| H-STA-12N   | 3/4       | 46.5 | 23.5 | 31.8          |
| H-STA-16N   | 1         | 48.5 | 29.7 | 42.9          |

## RUN TEE (H-SRT)

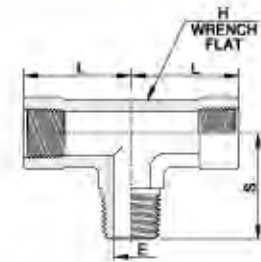
Female to male to female NPT.



| Part Number | Pipe Size | L    | S    | E    | H Wrench Flat |
|-------------|-----------|------|------|------|---------------|
| H-SRT-2N    | 1/8       | 24.0 | 19.6 | 4.8  | 12.7          |
| H-SRT-4N    | 1/4       | 29.0 | 26.5 | 7.1  | 17.5          |
| H-SRT-6N    | 3/8       | 34.5 | 28.2 | 9.6  | 20.6          |
| H-SRT-8N    | 1/2       | 37.0 | 35.3 | 11.9 | 25.4          |
| H-SRT-12N   | 3/4       | 46.5 | 39.6 | 15.7 | 31.8          |
| H-SRT-16N   | 1         | 48.8 | 49.2 | 22.3 | 42.9          |

## BRANCH TEE (H-SBT)

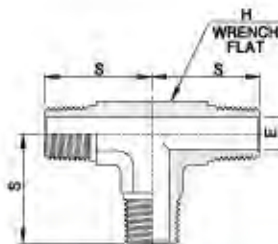
Female to female to male NPT.



| Part Number | Pipe Size | L    | S    | E    | H Wrench Flat |
|-------------|-----------|------|------|------|---------------|
| H-SBT-2N    | 1/8       | 24.0 | 19.6 | 4.8  | 12.7          |
| H-SBT-4N    | 1/4       | 29.0 | 26.5 | 7.1  | 17.5          |
| H-SBT-6N    | 3/8       | 34.5 | 28.2 | 9.6  | 20.6          |
| H-SBT-8N    | 1/2       | 37.0 | 35.3 | 11.9 | 25.4          |
| H-SBT-12N   | 3/4       | 46.5 | 39.6 | 15.7 | 31.8          |
| H-SBT-16N   | 1         | 48.8 | 49.2 | 22.3 | 42.9          |

## MALE TEE (H-SMT)

Male NPT all ports.



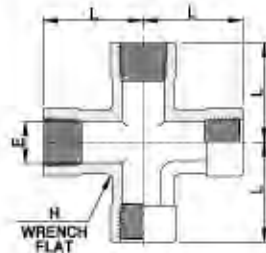
| Part Number | Pipe Size | S     | E    | H Wrench Flat |
|-------------|-----------|-------|------|---------------|
| H-SMT-2N    | 1/8       | 19.05 | 4.8  | 12.7          |
| H-SMT-4N    | 1/4       | 24.5  | 7.1  | 12.7          |
| H-SMT-6N    | 3/8       | 26.9  | 9.6  | 17.5          |
| H-SMT-8N    | 1/2       | 33.2  | 11.9 | 20.6          |
| H-SMT-12N   | 3/4       | 35.3  | 15.7 | 25.4          |
| H-SMT-16N   | 1         | 44.5  | 22.3 | 31.8          |

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# Hy-Lok Instrument Thread Fittings

## CROSS (H-SXA)

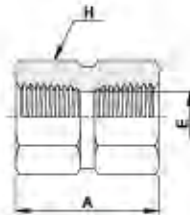
Female NPT all ports.



| Part Number | Pipe Size | L    | E    | H Wrench Flat |
|-------------|-----------|------|------|---------------|
| H-SXA-2N    | 1/8       | 24.0 | 8.9  | 12.7          |
| H-SXA-4N    | 1/4       | 29.0 | 11.7 | 17.5          |
| H-SXA-6N    | 3/8       | 34.5 | 15.0 | 20.6          |
| H-SXA-8N    | 1/2       | 37.0 | 18.7 | 25.4          |
| H-SXA-12N   | 3/4       | 46.5 | 23.5 | 31.8          |
| H-SXA-16N   | 1         | 48.8 | 29.7 | 42.9          |

## HEX COUPLING (H-SSA)

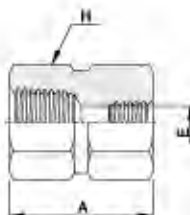
Female NPT both ends.



| Part Number | Pipe Size | A    | E    | H Hex |
|-------------|-----------|------|------|-------|
| H-SSA-2N    | 1/8       | 20.3 | 8.9  | 14.2  |
| H-SSA-4N    | 1/4       | 30.0 | 11.7 | 19.05 |
| H-SSA-6N    | 3/8       | 33.0 | 15.0 | 22.2  |
| H-SSA-8N    | 1/2       | 39.4 | 18.7 | 26.9  |
| H-SSA-12N   | 3/4       | 41.0 | 23.5 | 31.8  |
| H-SSA-16N   | 1         | 50.5 | 29.7 | 41.2  |

## HEX REDUCING COUPLING (H-SSR)

Female NPT to reduced female NPT.



| Part Number | Pipe Size | Reduced Pipe Size | A    | E    | H Hex |
|-------------|-----------|-------------------|------|------|-------|
| H-SSR 4- 2N | 1/4       | 1/8               | 31.2 | 8.9  | 19.05 |
| H-SSR 6- 4N | 3/8       | 1/4               | 34.8 | 11.7 | 22.2  |
| H-SSR 8- 2N | 1/2       | 1/8               | 39.4 | 8.9  | 26.9  |
| H-SSR 8- 4N | 1/2       | 1/4               | 44.2 | 11.7 | 26.9  |
| H-SSR 8- 6N | 1/2       | 3/8               | 45.0 | 15.0 | 26.9  |
| H-SSR12- 4N | 3/4       | 1/4               | 45.7 | 11.7 | 31.8  |
| H-SSR12- 8N | 3/4       | 1/2               | 52.0 | 18.7 | 31.8  |
| H-SSR16- 4N | 1         | 1/4               | 50.8 | 11.7 | 41.2  |
| H-SSR16- 8N | 1         | 1/2               | 55.4 | 18.7 | 41.2  |
| H-SSR16-12N | 1         | 3/4               | 57.0 | 23.5 | 41.2  |

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# Hy-Lok Instrument Thread Fittings

## PIPE CAP (H-SCA)

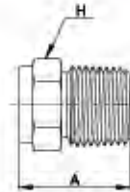
Female NPT.



| Part Number   | Pipe Size | A    | H Hex |
|---------------|-----------|------|-------|
| H - SCA - 2N  | 1/8       | 19.1 | 14.2  |
| H - SCA - 4N  | 1/4       | 22.9 | 19.05 |
| H - SCA - 6N  | 3/8       | 26.2 | 22.2  |
| H - SCA - 8N  | 1/2       | 34.0 | 26.9  |
| H - SCA - 12N | 3/4       | 36.6 | 31.8  |
| H - SCA - 16N | 1         | 41.1 | 41.2  |

## PIPE PLUG (H-SPB)

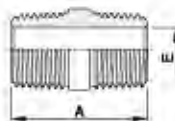
Male NPT.



| Part Number   | Pipe Size | A     | H Hex |
|---------------|-----------|-------|-------|
| H - SPB - 2N  | 1/8       | 19.05 | 11.1  |
| H - SPB - 4N  | 1/4       | 24.1  | 14.2  |
| H - SPB - 6N  | 3/8       | 25.0  | 17.4  |
| H - SPB - 8N  | 1/2       | 30.5  | 22.2  |
| H - SPB - 12N | 3/4       | 30.5  | 26.9  |
| H - SPB - 16N | 1         | 38.1  | 34.9  |

## CLOSE NIPPLE (H-SBE)

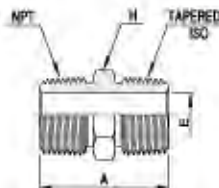
Male NPT both ends.



| Part Number   | Pipe Size | A     | E    |
|---------------|-----------|-------|------|
| H - SBE - 2N  | 1/8       | 19.05 | 4.8  |
| H - SBE - 4N  | 1/4       | 28.4  | 7.1  |
| H - SBE - 6N  | 3/8       | 28.4  | 9.6  |
| H - SBE - 8N  | 1/2       | 31.7  | 11.9 |
| H - SBE - 12N | 3/4       | 31.7  | 15.7 |
| H - SBE - 16N | 1         | 47.8  | 22.4 |

## HEX NIPPLE (H-SNA)

Male NPT both ends.



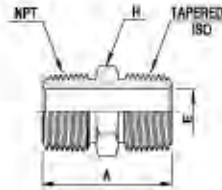
| Part Number   | Pipe Size | A    | E    | H Hex |
|---------------|-----------|------|------|-------|
| H - SNA - 2N  | 1/8       | 25.4 | 4.8  | 11.1  |
| H - SNA - 4N  | 1/4       | 35.3 | 7.1  | 14.2  |
| H - SNA - 6N  | 3/8       | 36.1 | 9.6  | 17.4  |
| H - SNA - 8N  | 1/2       | 46.7 | 11.9 | 22.2  |
| H - SNA - 12N | 3/4       | 46.7 | 15.7 | 26.9  |
| H - SNA - 16N | 1         | 58.7 | 22.3 | 34.9  |

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# Hy-Lok Instrument Thread Fittings

## HEX NIPPLE (H-SNA)

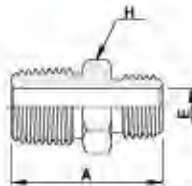
Male NPT to ISO tapered



| Part Number | NPT Thread Size | BSP/ISO Thread Size | A    | E    | H Hex |
|-------------|-----------------|---------------------|------|------|-------|
| H-SNA- 2NR  | 1/8             | 1/8-28 7/1          | 24.6 | 4.1  | 11.1  |
| H-SNA- 4NR  | 1/4             | 1/4-19 7/1          | 35.6 | 6.4  | 14.2  |
| H-SNA- 6NR  | 3/8             | 3/8-19 7/1          | 36.3 | 9.7  | 17.4  |
| H-SNA- 8NR  | 1/2             | 1/2-14 7/1          | 46.0 | 11.9 | 22.2  |
| H-SNA-12NR  | 3/4             | 3/4-14 7/1          | 46.7 | 15.7 | 26.9  |
| H-SNA-16NR  | 1               | 1-11 7/1            | 58.9 | 22.4 | 34.9  |

## HEX REDUCING NIPPLE (H-SNR)

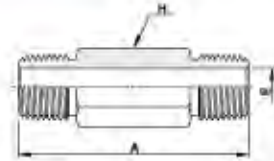
Male NPT to reduced male NPT.



| Part Number | Pipe Size | Reduced Pipe Size | A    | E    | H Hex |
|-------------|-----------|-------------------|------|------|-------|
| H-SNR 4- 2N | 1/4       | 1/8               | 30.7 | 4.8  | 14.2  |
| H-SNR 6- 2N | 3/8       | 1/8               | 32.0 | 4.8  | 17.4  |
| H-SNR 6- 4N | 3/8       | 1/4               | 36.1 | 7.1  | 17.4  |
| H-SNR 8- 2N | 1/2       | 1/8               | 37.2 | 4.8  | 22.2  |
| H-SNR 8- 4N | 1/2       | 1/4               | 41.7 | 7.1  | 22.2  |
| H-SNR 8- 6N | 1/2       | 3/8               | 41.7 | 9.6  | 22.2  |
| H-SNR12- 4N | 3/4       | 1/4               | 41.7 | 7.1  | 26.9  |
| H-SNR12- 8N | 3/4       | 1/2               | 46.7 | 11.9 | 26.9  |
| H-SNR16- 4N | 1         | 1/4               | 49.3 | 7.1  | 34.9  |
| H-SNR16- 8N | 1         | 1/2               | 54.1 | 11.9 | 34.9  |

## HEX LONG NIPPLE (H-SNL)

Male NPT both ends.

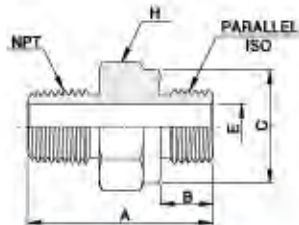


★ Specified length to be shown as last designator in part number  
Example: H-SNL-4N L 51(51mm=2"Length)

| Part Number | Pipe Size | A | E    | H Hex |
|-------------|-----------|---|------|-------|
| H-SNL- 2N   | 1/8       | ★ | 4.8  | 11.1  |
| H-SNL- 4N   | 1/4       | ★ | 7.1  | 14.2  |
| H-SNL- 6N   | 3/8       | ★ | 9.7  | 17.4  |
| H-SNL- 8N   | 1/2       | ★ | 11.9 | 22.2  |
| H-SNL- 12N  | 3/4       | ★ | 15.7 | 26.9  |
| H-SNL- 16N  | 1         | ★ | 22.4 | 34.9  |

## HEX NIPPLE (H-SNA)

Male NPT to male ISO parallel



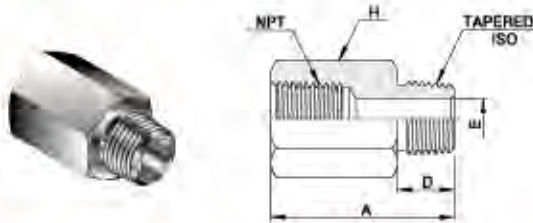
| Part Number | NPT Thread Size | BSP/ISO Thread Size | A    | B    | C    | E    | H Hex |
|-------------|-----------------|---------------------|------|------|------|------|-------|
| H-SNA- 2NG  | 1/8             | 1/8-28 228/1        | 27.4 | 7.1  | 13.7 | 4.1  | 14.2  |
| H-SNA- 4NG  | 1/4             | 1/4-19 228/1        | 36.8 | 11.2 | 17.8 | 5.8  | 19.05 |
| H-SNA- 6NG  | 3/8             | 3/8-19 228/1        | 37.6 | 11.2 | 21.8 | 7.9  | 22.2  |
| H-SNA- 8NG  | 1/2             | 1/2-14 228/1        | 45.0 | 14.2 | 26.1 | 11.9 | 26.9  |
| H-SNA-12NG  | 3/4             | 3/4-14 228/1        | 49.0 | 15.7 | 31.5 | 15.7 | 33.3  |
| H-SNA-16NG  | 1               | 1-11 228/1          | 56.9 | 18.3 | 38.9 | 19.8 | 41.0  |

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

# Hy-Lok Instrument Thread Fittings

## ADAPTER (H-MFAA)

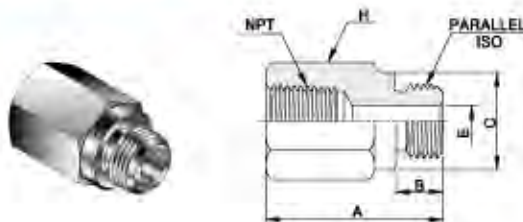
Female NPT to male ISO tapered.



| Part Number | NPT Thread Size | BSP/ISO Thread Size | A    | D    | E    | H Hex |
|-------------|-----------------|---------------------|------|------|------|-------|
| H-MFAA- 2RN | 1/8             | 1/8-28 7/1          | 27.4 | 9.7  | 4.8  | 14.2  |
| H-MFAA- 4RN | 1/4             | 1/4-19 7/1          | 35.8 | 14.2 | 7.1  | 19.05 |
| H-MFAA- 6RN | 3/8             | 3/8-19 7/1          | 37.6 | 14.2 | 9.7  | 22.2  |
| H-MFAA- 8RN | 1/2             | 1/2-14 7/1          | 49.0 | 19.1 | 11.9 | 26.9  |
| H-MFAA-12RN | 3/4             | 3/4-14 7/1          | 50.3 | 19.1 | 15.7 | 31.8  |
| H-MFAA-16RN | 1               | 1-11 7/1            | 58.0 | 23.9 | 22.3 | 41.2  |

## ADAPTER (H-MFAB)

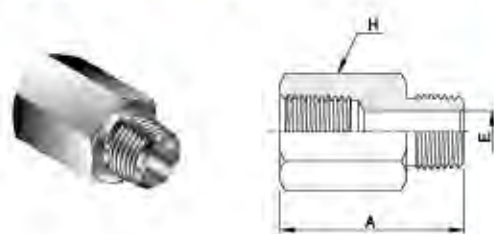
Female NPT male ISO parallel



| Part Number | NPT Thread Size | BSP/ISO Thread Size | A    | B    | C    | E    | H Hex |
|-------------|-----------------|---------------------|------|------|------|------|-------|
| H-MFAB- 2GN | 1/8             | 1/8-28 228/1        | 24.9 | 7.1  | 13.7 | 4.1  | 14.2  |
| H-MFAB- 4GN | 1/4             | 1/4-19 228/1        | 33.3 | 11.2 | 17.8 | 5.8  | 19.05 |
| H-MFAB- 6GN | 3/8             | 3/8-19 228/1        | 37.8 | 11.2 | 21.8 | 7.9  | 22.2  |
| H-MFAB- 8GN | 1/2             | 1/2-14 228/1        | 43.9 | 14.2 | 26.1 | 11.9 | 26.9  |
| H-MFAB-12GN | 3/4             | 3/4-14 228/1        | 50.8 | 15.7 | 31.5 | 15.7 | 33.3  |
| H-MFAB-16GN | 1               | 1-11 228/1          | 53.1 | 18.3 | 38.9 | 19.8 | 41.2  |

## ADAPTER (H-MFAA)

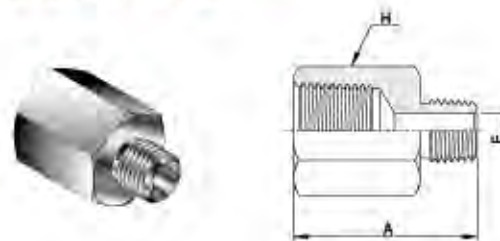
Female NPT to same size male NPT.



| Part Number | Pipe Size | A    | E    | H Hex |
|-------------|-----------|------|------|-------|
| H-MFAA- 2N  | 1/8       | 27.4 | 4.8  | 14.2  |
| H-MFAA- 4N  | 1/4       | 35.6 | 7.1  | 19.05 |
| H-MFAA- 6N  | 3/8       | 37.8 | 9.6  | 22.2  |
| H-MFAA- 8N  | 1/2       | 49.0 | 11.9 | 26.9  |
| H-MFAA- 12N | 3/4       | 50.3 | 15.7 | 31.7  |
| H-MFAA- 16N | 1         | 58.0 | 22.3 | 41.2  |

## REDUCING ADAPTER (H-MFAC)

Female NPT to reduced male NPT.



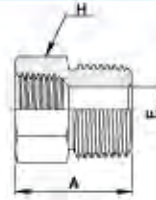
| Part Number   | Female Pipe Size | Male Pipe Size | A    | E    | H Hex |
|---------------|------------------|----------------|------|------|-------|
| H-MFAC 2- 4N  | 1/4              | 1/8            | 31.5 | 4.8  | 19.05 |
| H-MFAC 2- 6N  | 3/8              | 1/8            | 33.5 | 4.8  | 22.2  |
| H-MFAC 4- 6N  | 3/8              | 1/4            | 37.8 | 7.1  | 22.2  |
| H-MFAC 2- 8N  | 1/2              | 1/8            | 40.0 | 4.8  | 26.9  |
| H-MFAC 4- 8N  | 1/2              | 1/4            | 44.5 | 7.1  | 26.9  |
| H-MFAC 6- 8N  | 1/2              | 3/8            | 44.5 | 9.6  | 26.9  |
| H-MFAC 4-12N  | 3/4              | 1/4            | 45.7 | 7.1  | 31.8  |
| H-MFAC 6-12N  | 3/4              | 3/8            | 45.7 | 9.6  | 31.8  |
| H-MFAC 8-12N  | 3/4              | 1/2            | 51.1 | 11.9 | 31.8  |
| H-MFAC 4-16N  | 1                | 1/4            | 50.8 | 7.1  | 41.2  |
| H-MFAC 8-16N  | 1                | 1/2            | 55.3 | 11.9 | 41.2  |
| H-MFAC 16-16N | 1                | 1              | 54.9 | 15.7 | 41.2  |

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# Hy-Lok Instrument Thread Fittings

## HEX BUSHING (H-SHB)

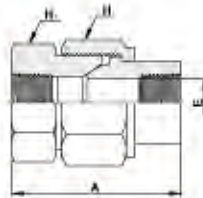
Male NPT to reduced female NPT.



| Part Number | Female Pipe Size | A   | E    | H Hex | Working Pressure (PSIG) |       |              |      |
|-------------|------------------|-----|------|-------|-------------------------|-------|--------------|------|
|             |                  |     |      |       | 316SS                   | Brass | Carbon Steel |      |
| H-SHB 4-2N  | 1/4              | 1/8 | 26.7 | 7.1   | 14.2                    | 5600  | 3100         | 6200 |
| H-SHB 6-2N  | 3/8              | 1/8 | 21.8 | 8.5   | 17.4                    |       |              |      |
| H-SHB 6-4N  | 3/8              | 1/4 | 30.0 | 9.6   | 19.05                   | 5200  | 3100         | 6200 |
| H-SHB 8-2N  | 1/2              | 1/8 | 27.4 | 8.5   | 22.2                    | -     | -            | -    |
| H-SHB 8-4N  | 1/2              | 1/4 | 27.4 | 11.7  | 22.2                    | 5800  | 3100         | 6200 |
| H-SHB 8-6N  | 1/2              | 3/8 | 35.6 | 11.9  | 22.2                    | 4400  | 2500         | 5100 |
| H-SHB12-4N  | 3/4              | 1/4 | 27.4 | 11.4  | 26.9                    | -     | -            | -    |
| H-SHB12-6N  | 3/4              | 3/8 | 27.4 | 15.0  | 26.9                    | -     | -            | -    |
| H-SHB12-8N  | 3/4              | 1/2 | 41.4 | 15.7  | 26.9                    | -     | -            | -    |
| H-SHB16-4N  | 1                | 1/4 | 34.8 | 11.4  | 34.9                    | -     | -            | -    |
| H-SHB16-8N  | 1                | 1/2 | 34.8 | 18.5  | 34.9                    | -     | -            | -    |
| H-SHB16-12N | 1                | 3/4 | 47.0 | 22.4  | 34.9                    | -     | -            | -    |

## UNION BALL JOINT (H-SUR)

Female NPT both ends.



| Part Number | Pipe Size | A    | E    | H Hex | H <sub>1</sub> Hex |
|-------------|-----------|------|------|-------|--------------------|
| H-SUR-2N    | 1/8       | 45.7 | 6.9  | 28.6  | 23.8               |
| H-SUR-4N    | 1/4       | 59.4 | 9.1  | 34.9  | 30.2               |
| H-SUR-6N    | 3/8       | 63.5 | 13.2 | 38.1  | 33.3               |
| H-SUR-8N    | 1/2       | 68.6 | 15.7 | 44.5  | 41.3               |
| H-SUR-12N   | 3/4       | 79.2 | 22.4 | 50.8  | 47.6               |
| H-SUR-16N   | 1         | 90.4 | 26.2 | 63.5  | 60.3               |

## ISO PARALLEL GASKET (KP-A)



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

| Part Number | Pipe Size | E    | H   | Tx   |
|-------------|-----------|------|-----|------|
| KP-A-01     | 1/8       | 10.0 | 2.0 | 16.0 |
| KP-A-03     | 1/4       | 14.0 | 2.0 | 19.5 |
| KP-A-05     | 3/8       | 17.0 | 2.0 | 24.0 |
| KP-A-07     | 1/2       | 22.0 | 2.0 | 29.0 |
| KP-A-11     | 3/4       | 27.0 | 2.0 | 34.5 |
| KP-A-16     | 1         | 34.0 | 2.0 | 42.0 |

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### QUALITY SYSTEM CERTIFICATES



ISO 9001  
CERTIFICATE NO. GQC 212

ASME SECT. II (MC)  
CERTIFICATE NO. QSC 584

### TYPE APPROVALS



American Bureau Shipping  
CERTIFICATE NO. DC-BK50268-X



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