Instrumentation Thread Fitting Index

| ICN Close Nipple | 222P | | IRHB Reducing Hex Bushing | 224P | IRSE Reducing Street Elbow | 226P |
|--------------------------------|------|--|--------------------------------|------|-------------------------------|------|
| IHN | 222P | Siring Si | IHC Hex Coupling | 224P | IME Male Elbow | 226P |
| Hex Nipple | | Total A | IHRC Hex Reducing Coupling | 224P | IFT Female Tee | 226P |
| IHLN Hex Long Nipple | 222P | | IPG ISO Parallel Gasket | 225P | IBT Branch Tee | 227P |
| IHRN Hex Reducing Nipple | 223P | | IPP Pipe Plug | 225P | IRT Run Tee | 227P |
| IA | 223P | Spring. | IPC Pipe Cap | 225P | IMT Male Tee | 227P |
| Adapter | | | IFE Female Elbow | 225P | IFC Female Cross | 227P |
| IRA Reducing Adapter | 224P | | ISE Street Elbow | 226P | | |

Instrumentation Thread Fitting Other Fittings

Instrumentation Thread Fittings

Ordering Information

1. Fitting Type

Please refer to Instrumentation Thread Fitting Index on page 220.

2. Pipe Thread Size

| Size (inch) | 1/8 | 1/4 | 3/8 | 1/2 | 3/4 | 1 |
|--------------|-----|-----|-----|-----|-----|-----|
| ISO Tapered | 2R | 4R | 6R | 8R | 12R | 16R |
| NPT | 2N | 4N | 6N | 8N | 12N | 16N |
| ISO Parallel | 2G | 4G | 6G | 8G | 12G | 16G |

* For special sizes and configurations, please consult BMT (SUPERLOK) sales representative.

3. Pipe Thread Type

- □ **N** = NPT (ASME B1.20.1, SAE AS71051)
- ☐ **G** = ISO/BSP Parallel (ISO 228/1, JIS B 0202)
- □ R = ISO/BSP Tapered (ISO 7/1, JIS B 0203)

4. Material

The mumbers in parentheses indicate the maximum temperature rating.

- \Box (Blank) = 316 Stainless Steel [1000°F(537°C)]
- □ **B** = Brass [400°F(204°C)]
- \Box **C** = Carbon Steel [375°F(190°C)]

Installation Instructions

To ensure a leak-tight seal, BMT recommends the use of a pipe thread sealant on all NPT, ISO Tapered threads. The most effective sealing method is teflon tape. Tape should be used only on male tapered pipe threads.

Do not use tape on flared, coned or tube fitting ends. Clean both male and female tapered threads. Wrap tape in the direction of the male tapered thread spiral.

Gasket, O-Ring Materials

| Component | Material | Temperature range °F(°C) |
|---------------|--------------|---------------------------------|
| O sing | Buna N | -25℃ to 110℃ (-13°F to 230°F) |
| O-ring | Fluorocarbon | -28°C to 204°C (-20°F to 400°F) |
| Copper gasket | Copper | -196℃ to 204℃ (-325°F to 400°F) |

Pressure Ratings

| 6. | | 316 Stainless Steel | | Brass | | | Carbon Steel | | | | | | |
|--------------------|----------|---------------------|-----|-------|------|------|--------------|------|------|-------|-----|------|------|
| Size Designator | NPT Size | Ma | ale | Fen | nale | Ma | ale | Fen | nale | Ma | ale | Fen | nale |
| Designator | | psig | bar | psig | bar | psig | bar | psig | bar | psig | bar | psig | bar |
| 1 | 1/16 | 11000 | 757 | 6700 | 461 | 5500 | 378 | 3300 | 227 | 11000 | 757 | 6700 | 461 |
| 2 | 1/8 | 10000 | 689 | 6500 | 447 | 5000 | 344 | 3200 | 220 | 10000 | 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 |

- Pressure ratings are based on ASME B31.3 (Process Piping) with allowable stress 20,000 psi for 316 stainless steel, 10,000 psi for brass, and 20,000 psi for carbon steel.
- To determine pressure ratings in accordance with B31.1: multiply by 0.94 for 316 stainless steel and by 0.75 for carbon steel. For Brass, the ratings remain the same.
- To determine kPa, multiply by 6.89

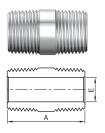


Other Fittings

Instrumentation Thread Fitting

ICN

Close Nipple

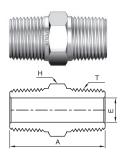


Male NPT Threads

| Down No. | NDT Ding Cine | Dimension | | | |
|-----------|---------------|-----------|------|--|--|
| Part No. | NPT Pipe Size | Α | Е | | |
| ICN - 2N | 1/8 | 19.1 | 4.8 | | |
| ICN - 4N | 1/4 | 28.4 | 7.1 | | |
| ICN - 6N | 3/8 | 28.4 | 9.6 | | |
| ICN - 8N | 1/2 | 38.1 | 11.9 | | |
| ICN - 12N | 3/4 | 38.1 | 15.7 | | |
| ICN - 16N | 1 | 47.8 | 22.4 | | |

IHN

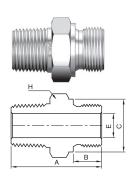
Hex Nipple



Male NPT Threads

| Dort No. | NPT | Dimension | | | | | |
|-----------|-----------|-----------|------|------|--|--|--|
| Part No. | Pipe Size | Α | Е | Н | | | |
| IHN - 2N | 1/8 | 25.6 | 4.8 | 11.1 | | | |
| IHN - 4N | 1/4 | 35.6 | 7.1 | 14.2 | | | |
| IHN - 6N | 3/8 | 36.3 | 9.6 | 17.4 | | | |
| IHN - 8N | 1/2 | 46.7 | 11.9 | 22.2 | | | |
| IHN - 12N | 3/4 | 46.7 | 15.7 | 26.9 | | | |
| IHN - 16N | 1 | 58.9 | 22.4 | 34.9 | | | |

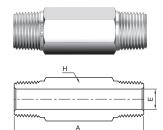
Male NPT to Male ISO Parallel Pipe Threads



| Part No. | NPT Pipe Size | ISO/BSP Pipe Size | | | Dimension | | |
|-----------------|------------------|----------------------|------|----|-----------|------|------|
| | Fipe Size | (ISO 228) | Α | В | С | Е | Н |
| IHN - 2N - 2G | 1/8 | 1/8 | 27.7 | 8 | 13.7 | 4.1 | 14.2 |
| IHN - 4N - 4G | 1/4 | 1/4 | 36.8 | 12 | 18.0 | 5.8 | 19.1 |
| IHN - 6N - 6G | 3/8 | 3/8 | 37.6 | 12 | 21.6 | 7.9 | 22.2 |
| IHN - 8N - 8G | 1/2 | 1/2 | 44.4 | 14 | 25.9 | 11.9 | 26.9 |
| IHN - 12N - 12G | 3/4 | 3/4 | 49.0 | 16 | 32.0 | 15.7 | 33.3 |
| IHN - 16N - 16G | 1 | 1 | 56.6 | 18 | 38.9 | 19.8 | 41.2 |

IHLN

Hex Long Nipple



Male NPT Threads

| Dowt No. | NPT | Dimension | | | | |
|------------|-----------|-----------|------|------|--|--|
| Part No. | Pipe Size | Α | Е | Н | | |
| IHLN - 2N | 1/8 | * | 4.8 | 11.1 | | |
| IHLN - 4N | 1/4 | * | 7.1 | 14.2 | | |
| IHLN - 6N | 3/8 | * | 9.6 | 17.4 | | |
| IHLN - 8N | 1/2 | * | 11.9 | 22.2 | | |
| IHLN - 12N | 3/4 | * | 15.7 | 26.9 | | |
| IHLN - 16N | 1 | * | 22.4 | 34.9 | | |

^{*} The length of Nipple "A" is defined by user (Part number example : IHLN - 8N - 100L when A = 100mm)

⁻ Dimensions and Drawings are for reference only and are subject to change without prior notice.

⁻ Unless otherwise specified, all dimensions are in millimeters.

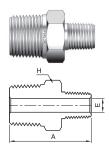
⁻ Sizes, pressure classes, and end connections not listed are available upon request.

Instrumentation Thread Fittings

Other Fittings

IHRN

Hex Reducing Nipple

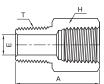


Male NPT Threads

| David No. | NPT | Reduced | | Dimension | |
|----------------|-----------|-----------|------|-----------|------|
| Part No. | Pipe Size | Pipe Size | Α | Е | Н |
| IHRN - 2N - 1N | 1/8 | 1/16 | 25.6 | 3.0 | 11.1 |
| IHRN - 4N - 2N | 1/4 | 1/8 | 31.0 | 4.8 | 14.2 |
| IHRN - 6N - 2N | 3/8 | 1/8 | 31.8 | 4.8 | 17.4 |
| IHRN - 6N - 4N | 3/8 | 1/4 | 36.3 | 7.1 | 17.4 |
| IHRN - 8N - 2N | 1/2 | 1/8 | 37.3 | 4.8 | 22.2 |
| IHRN - 8N - 4N | 1/2 | 1/4 | 41.9 | 7.1 | 22.2 |
| IHRN - 8N - 6N | 1/2 | 3/8 | 41.9 | 9.6 | 22.2 |
| IHRN-12N - 4N | 3/4 | 1/4 | 41.9 | 7.1 | 26.9 |
| IHRN-12N - 8N | 3/4 | 1/2 | 46.7 | 11.9 | 26.9 |
| IHRN-16N - 4N | 1 | 1/4 | 49.3 | 7.1 | 34.9 |
| IHRN-16N - 8N | 1 | 1/2 | 54.1 | 11.9 | 34.9 |
| IHRN-16N -12N | 1 | 3/4 | 54.1 | 15.7 | 34.9 |

IA Adapter

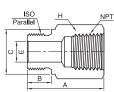




Male to Female NPT Threads

| Dowt No. | NPT | Dimension | | | | | |
|----------|-----------|-----------|------|------|--|--|--|
| Part No. | Pipe Size | Α | Е | Н | | | |
| IA - 2N | 1/8 | 27.9 | 4.8 | 14.2 | | | |
| IA - 4N | 1/4 | 35.6 | 7.1 | 19.1 | | | |
| IA - 6N | 3/8 | 38.4 | 9.6 | 22.2 | | | |
| IA - 8N | 1/2 | 49.3 | 11.9 | 26.9 | | | |
| IA - 12N | 3/4 | 51.3 | 15.7 | 33.3 | | | |
| IA - 16N | 1 | 57.9 | 22.4 | 41.2 | | | |





Male ISO Parallel Pipe Threads to Female NPT

| Part No. | ISO/BSP Pipe Size | NPT Pipe Size | Dimension | | | | | |
|----------------|----------------------|------------------|-----------|------|------|------|------|--|
| | (ISO 228) | Fipe Size | Α | В | С | Е | Н | |
| IA - 2G - 2N | 1/8 | 1/8 | 25.1 | 8.0 | 13.7 | 4.1 | 14.2 | |
| IA - 4G - 4N | 1/4 | 1/4 | 33.5 | 12.0 | 18.0 | 5.8 | 19.1 | |
| IA - 6G - 6N | 3/8 | 3/8 | 35.8 | 12.0 | 21.6 | 7.9 | 22.2 | |
| IA - 8G - 8N | 1/2 | 1/2 | 44.2 | 14.0 | 25.9 | 11.9 | 26.9 | |
| IA - 12G - 12N | 3/4 | 3/4 | 48.0 | 16.0 | 32.0 | 15.7 | 33.3 | |
| IA - 16G - 16N | 1 | 1 | 53.3 | 18.0 | 38.9 | 19.8 | 41.2 | |

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⁻ Unless otherwise specified, all dimensions are in millimeters.

⁻ Sizes, pressure classes, and end connections not listed are available upon request.

Other Fittings

Instrumentation Thread Fitting

IRA

Reducing Adapter





Male to Female NPT Threads

| Doub No. | Male | Female | | Dimension | | | |
|---------------|-----------|-----------|------|-----------|------|--|--|
| Part No. | Pipe Size | Pipe Size | А | Е | Н | | |
| IRA - 2N - 4N | 1/8 | 1/4 | 32.0 | 4.8 | 19.1 | | |
| IRA - 2N - 6N | 1/8 | 3/8 | 33.8 | 4.8 | 22.2 | | |
| IRA - 4N - 6N | 1/4 | 3/8 | 38.1 | 7.1 | 22.2 | | |
| IRA - 2N - 8N | 1/8 | 1/2 | 40.1 | 4.8 | 26.9 | | |
| IRA - 4N - 8N | 1/4 | 1/2 | 44.7 | 7.1 | 26.9 | | |
| IRA - 6N - 8N | 3/8 | 1/2 | 44.4 | 9.6 | 26.9 | | |
| IRA - 4N -12N | 1/4 | 3/4 | 47.0 | 7.1 | 33.3 | | |
| IRA - 6N -12N | 3/8 | 3/4 | 46.2 | 9.6 | 33.3 | | |
| IRA - 8N -12N | 1/2 | 3/4 | 51.3 | 11.9 | 33.3 | | |
| IRA - 4N -16N | 1/4 | 1 | 49.8 | 7.1 | 41.2 | | |
| IRA - 8N -16N | 1/2 | 1 | 54.9 | 11.9 | 41.2 | | |
| IRA-12N -16N | 3/4 | 1 | 55.1 | 15.7 | 41.2 | | |

IRHB

Reducing Hex Bushing





Male to Female NPT Threads

| Part No. | Male | Female | Dimension | | | |
|----------------|-----------|-----------|-----------|------|------|--|
| Part No. | Pipe Size | Pipe Size | Α | Е | Н | |
| IRHB - 4N - 2N | 1/4 | 1/8 | 26.9 | 7.1 | 14.2 | |
| IRHB - 6N - 2N | 3/8 | 1/8 | 21.8 | 8.6 | 17.4 | |
| IRHB - 6N - 4N | 3/8 | 1/4 | 30.2 | 9.6 | 19.1 | |
| IRHB - 8N - 2N | 1/2 | 1/8 | 27.4 | 8.6 | 22.2 | |
| IRHB - 8N - 4N | 1/2 | 1/4 | 27.4 | 11.4 | 22.2 | |
| IRHB - 8N - 6N | 1/2 | 3/8 | 35.8 | 11.9 | 22.2 | |
| IRHB-12N - 4N | 3/4 | 1/4 | 27.4 | 11.4 | 26.9 | |
| IRHB-12N - 6N | 3/4 | 3/8 | 27.4 | 15.0 | 26.9 | |
| IRHB-12N - 8N | 3/4 | 1/2 | 41.4 | 15.7 | 26.9 | |
| IRHB-16N - 4N | 1 | 1/4 | 34.8 | 11.4 | 34.9 | |
| IRHB-16N - 6N | 1 | 3/8 | 34.8 | 15.0 | 34.9 | |
| IRHB-16N - 8N | 1 | 1/2 | 34.8 | 18.5 | 34.9 | |
| IRHB-16N -12N | 1 | 3/4 | 47.0 | 22.4 | 34.9 | |

IHC

Hex Coupling





Female NPT Threads

| Down No. | Dina Cina | Dimension | | | | |
|-----------|-----------|-----------|------|------|--|--|
| Part No. | Pipe Size | Α | Е | Н | | |
| IHC - 2N | 1/8 | 20.6 | 8.6 | 14.2 | | |
| IHC - 4N | 1/4 | 30.2 | 11.4 | 19.1 | | |
| IHC - 6N | 3/8 | 33.3 | 15.0 | 22.2 | | |
| IHC - 8N | 1/2 | 39.6 | 18.5 | 26.9 | | |
| IHC - 12N | 3/4 | 41.1 | 23.9 | 33.3 | | |
| IHC - 16N | 1 | 50.8 | 29.7 | 41.2 | | |

IHRC

Hex Reducing Coupling



| Doub No. | Dina Cina | Reduced | Dimension | | | |
|----------------|-----------|-----------|-----------|------|------|--|
| Part No. | Pipe Size | Pipe Size | Α | Е | Н | |
| IHRC - 4N - 2N | 1/4 | 1/8 | 31.0 | 8.6 | 19.1 | |
| IHRC - 6N - 4N | 3/8 | 1/4 | 35.1 | 11.4 | 22.2 | |
| IHRC - 8N - 2N | 1/2 | 1/8 | 39.6 | 8.6 | 26.9 | |
| IHRC - 8N - 4N | 1/2 | 1/4 | 44.4 | 11.4 | 26.9 | |
| IHRC - 8N - 6N | 1/2 | 3/8 | 45.2 | 15.0 | 26.9 | |
| IHRC-12N - 4N | 3/4 | 1/4 | 46.0 | 11.4 | 33.3 | |
| IHRC-12N - 8N | 3/4 | 1/2 | 52.3 | 18.5 | 33.3 | |
| IHRC-16N - 8N | 1 | 1/2 | 55.6 | 18.5 | 41.2 | |
| IHRC-16N -12N | 1 | 3/4 | 57.2 | 23.9 | 41.2 | |

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⁻ Sizes, pressure classes, and end connections not listed are available upon request.

Instrumentation Thread Fittings

Other Fittings

IPG

ISO Parallel Gasket





ISO Parallel Copper Gaskets

| Down No. | Dina Cina | Dimension | | | | |
|----------|-----------|-----------|-----|------|--|--|
| Part No. | Pipe Size | Е | Н | Т | | |
| IPG - 2 | 1/8 | 10.2 | 2.0 | 16.0 | | |
| IPG - 4 | 1/4 | 13.4 | 2.0 | 19.5 | | |
| IPG - 6 | 3/8 | 17.0 | 2.0 | 24.0 | | |
| IPG - 8 | 1/2 | 21.2 | 2.0 | 29.0 | | |
| IPG - 12 | 3/4 | 27.2 | 2.0 | 34.5 | | |
| IPG - 16 | 1 | 34.0 | 2.0 | 42.0 | | |

IPP

Pipe Plug





Male NPT Threads

| David Na | Dina Cira | Dimension | | |
|-----------|-----------|-----------|------|--|
| Part No. | Pipe Size | Α | Н | |
| IPP - 2N | 1/8 | 19.1 | 11.1 | |
| IPP - 4N | 1/4 | 24.4 | 14.2 | |
| IPP - 6N | 3/8 | 25.1 | 17.4 | |
| IPP - 8N | 1/2 | 30.7 | 22.2 | |
| IPP - 12N | 3/4 | 30.7 | 26.9 | |
| IPP - 16N | 1 | 38.1 | 34.9 | |

IPC

Pipe Cap





Female NPT Threads

| Down No. | Dina Cina | Dimension | | |
|-----------|-----------|-----------|------|--|
| Part No. | Pipe Size | Α | Н | |
| IPC - 2N | 1/8 | 19.1 | 14.2 | |
| IPC - 4N | 1/4 | 23.1 | 19.1 | |
| IPC - 6N | 3/8 | 26.2 | 22.2 | |
| IPC - 8N | 1/2 | 34.0 | 26.9 | |
| IPC - 12N | 3/4 | 36.6 | 33.3 | |
| IPC - 16N | 1 | 41.1 | 41.2 | |

IFE

Female Elbow



| Death | Diag Cine | Dimension | | | |
|-----------|-----------|-----------|------|------|--|
| Part No. | Pipe Size | Е | L | Н | |
| IFE - 2N | 1/8 | 8.6 | 24.0 | 12.7 | |
| IFE - 4N | 1/4 | 11.4 | 29.0 | 17.5 | |
| IFE - 6N | 3/8 | 15.0 | 34.5 | 20.6 | |
| IFE - 8N | 1/2 | 18.5 | 37.0 | 25.4 | |
| IFE - 12N | 3/4 | 23.9 | 46.5 | 31.8 | |
| IFE - 16N | 1 | 29.7 | 48.8 | 42.9 | |

⁻ Dimensions and Drawings are for reference only and are subject to change without prior notice.

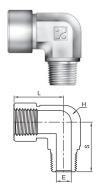
⁻ Unless otherwise specified, all dimensions are in millimeters.

⁻ Sizes, pressure classes, and end connections not listed are available upon request.

Other Fittings

ISE

Street Elbow



Female to Male NPT Threads

| Don't No. | Dino Cino | Dimension | | | | |
|-----------|-----------|-----------|------|------|------|--|
| Part No. | Pipe Size | Е | L | S | Н | |
| ISE - 2N | 1/8 | 4.8 | 24.1 | 19.6 | 12.7 | |
| ISE - 4N | 1/4 | 7.1 | 29.0 | 26.5 | 17.5 | |
| ISE - 6N | 3/8 | 9.6 | 34.5 | 28.2 | 20.6 | |
| ISE - 8N | 1/2 | 11.9 | 37.0 | 35.3 | 25.4 | |
| ISE - 12N | 3/4 | 15.7 | 46.5 | 39.6 | 31.8 | |
| ISE - 16N | 1 | 22.4 | 48.8 | 49.2 | 42.9 | |

IRSE

Reducing Street Elbow



Female to Male NPT Threads

| Female | | Male | Dimension | | | |
|----------------|-----------|-----------|-----------|------|------|------|
| Part No. | Pipe Size | Pipe Size | Е | L | S | Н |
| IRSE - 2N - 1N | 1/8 | 1/16 | 3.0 | 24.1 | 22.1 | 12.7 |
| IRSE - 4N - 2N | 1/4 | 1/8 | 4.8 | 29.0 | 22.4 | 17.5 |
| IRSE - 6N - 4N | 3/8 | 1/4 | 7.1 | 34.5 | 28.2 | 20.6 |
| IRSE - 8N - 4N | 1/2 | 1/4 | 7.1 | 37.0 | 30.5 | 25.4 |
| IRSE - 8N - 6N | 1/2 | 3/8 | 9.6 | 37.0 | 30.5 | 25.4 |
| IRSE -12N - 8N | 3/4 | 1/2 | 11.9 | 46.5 | 39.6 | 31.8 |
| IRSE -16N - 8N | 1 | 1/2 | 11.9 | 48.8 | 46.5 | 42.9 |

IME

Male Elbow

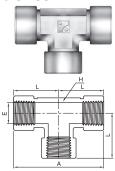


Male NPT Threads

| Dont No | Dina Cina | Dimension | | | | |
|-----------|-----------|-----------|------|------|--|--|
| Part No. | Pipe Size | Е | L | Н | | |
| IME - 2N | 1/8 | 4.8 | 19.1 | 12.7 | | |
| IME - 4N | 1/4 | 7.1 | 24.5 | 12.7 | | |
| IME - 6N | 3/8 | 9.6 | 26.9 | 17.5 | | |
| IME - 8N | 1/2 | 11.9 | 33.2 | 20.6 | | |
| IME - 12N | 3/4 | 15.7 | 35.3 | 25.4 | | |
| IME - 16N | 1 | 22.4 | 44.5 | 31.8 | | |

IFT

Female Tee



| Don't No. | Dino Cino | Dimension | | | | |
|-----------|-----------|-----------|------|------|------|--|
| Part No. | Pipe Size | Α | Е | L | Н | |
| IFT - 2N | 1/8 | 48.0 | 8.6 | 24.0 | 12.7 | |
| IFT - 4N | 1/4 | 58.0 | 11.4 | 29.0 | 17.5 | |
| IFT - 6N | 3/8 | 69.0 | 15.0 | 34.5 | 20.6 | |
| IFT - 8N | 1/2 | 74.0 | 18.5 | 37.0 | 25.4 | |
| IFT - 12N | 3/4 | 93.0 | 23.9 | 46.5 | 31.8 | |
| IFT - 16N | 1 | 97.0 | 29.7 | 48.5 | 42.9 | |

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- Unless otherwise specified, all dimensions are in millimeters.
- Sizes, pressure classes, and end connections not listed are available upon request.

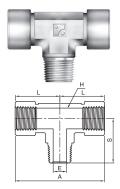


Instrumentation Thread Fittings

Other Fittings

IBT

Branch Tee

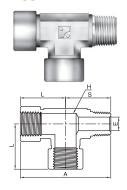


Male and Female NPT Threads

| Part No. | D: 6: | Dimension | | | | |
|-----------|-----------|-----------|------|------|------|------|
| | Pipe Size | Α | Е | L | S | Н |
| IBT - 2N | 1/8 | 48.0 | 4.8 | 24.0 | 19.6 | 12.7 |
| IBT - 4N | 1/4 | 58.0 | 7.1 | 29.0 | 26.5 | 17.5 |
| IBT - 6N | 3/8 | 69.0 | 9.6 | 34.5 | 28.2 | 20.6 |
| IBT - 8N | 1/2 | 74.0 | 11.9 | 37.0 | 35.3 | 25.4 |
| IBT - 12N | 3/4 | 93.0 | 15.7 | 46.5 | 39.6 | 31.8 |
| IBT - 16N | 1 | 97.0 | 22.4 | 48.5 | 49.2 | 42.9 |

IRT

Run Tee

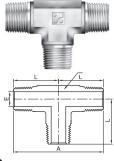


Male and Female NPT Threads

| Part No. | Pipe Size | Dimension | | | | | |
|-----------|-----------|-----------|------|------|------|------|--|
| | | Α | Е | L | S | Н | |
| IRT - 2N | 1/8 | 43.6 | 4.8 | 24.0 | 19.6 | 12.7 | |
| IRT - 4N | 1/4 | 56.2 | 7.1 | 29.0 | 26.5 | 17.5 | |
| IRT - 6N | 3/8 | 62.7 | 9.6 | 34.5 | 28.2 | 20.6 | |
| IRT - 8N | 1/2 | 72.3 | 11.9 | 37.0 | 35.3 | 25.4 | |
| IRT - 12N | 3/4 | 86.1 | 15.7 | 46.5 | 39.6 | 31.8 | |
| IRT - 16N | 1 | 97.7 | 22.4 | 48.5 | 49.2 | 42.9 | |

IMT

Male Tee

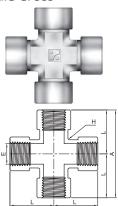


Male NPT Threads

| Pipe Size | Dimension | | | | |
|-----------|--------------------------|--|--|---|--|
| | Α | Е | L | Н | |
| 1/8 | 38.2 | 4.8 | 19.1 | 12.7 | |
| 1/4 | 49.0 | 7.1 | 24.5 | 12.7 | |
| 3/8 | 53.8 | 9.6 | 26.9 | 17.5 | |
| 1/2 | 66.4 | 11.9 | 33.2 | 20.6 | |
| 3/4 | 70.6 | 15.7 | 35.3 | 25.4 | |
| 1 | 89.0 | 22.4 | 44.5 | 31.8 | |
| | 1/8 1/4 3/8 1/2 | 1/8 38.2 1/4 49.0 3/8 53.8 1/2 66.4 3/4 70.6 | Pipe Size A E 1/8 38.2 4.8 1/4 49.0 7.1 3/8 53.8 9.6 1/2 66.4 11.9 3/4 70.6 15.7 | Pipe Size A E L 1/8 38.2 4.8 19.1 1/4 49.0 7.1 24.5 3/8 53.8 9.6 26.9 1/2 66.4 11.9 33.2 3/4 70.6 15.7 35.3 | |

IFC

Female Cross



| Part No. | Pipe Size | Dimension | | | | |
|-----------|-----------|-----------|------|------|------|--|
| | | Α | Е | L | Н | |
| IFC - 2N | 1/8 | 48.0 | 8.6 | 24.0 | 12.7 | |
| IFC - 4N | 1/4 | 58.0 | 11.4 | 29.0 | 17.5 | |
| IFC - 6N | 3/8 | 69.0 | 15.0 | 34.5 | 20.6 | |
| IFC - 8N | 1/2 | 74.0 | 18.5 | 37.0 | 25.4 | |
| IFC - 12N | 3/4 | 93.0 | 23.9 | 46.5 | 31.8 | |
| IFC - 16N | 1 | 97.0 | 29.7 | 48.5 | 42.9 | |

⁻ Dimensions and Drawings are for reference only and are subject to change without prior notice.

⁻ Unless otherwise specified, all dimensions are in millimeters.

⁻ Sizes, pressure classes, and end connections not listed are available upon request.