

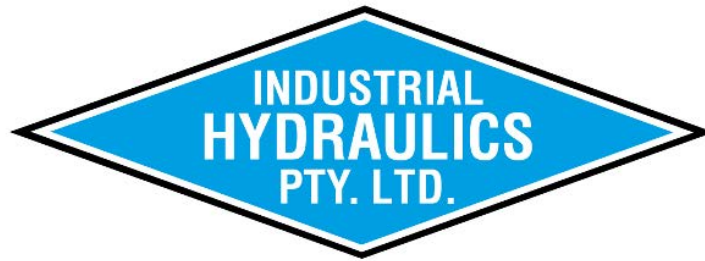
ADAPTORS

CATALOGUE 2026



IMPORTANT INFORMATION

This catalogue represents our commitment to providing a broad and reliable range of adaptor solutions. Every effort has been made to ensure the information is accurate and as complete as possible. However, due to the extensive scope of available products, not all items are listed. If you require something not shown, please contact us — our team can source additional parts at competitive pricing. While we strive for accuracy in all details, all information should be independently verified, and this catalogue should be used as a guide only. We welcome any feedback.



QUALITY MANAGEMENT SYSTEM

Industrial Hydraulics Pty Ltd is certified to ISO 9001:2015 for the following scope of activities:

Distribution and repair of hydraulic, refuelling and lubrication products.



<https://register.jasanz.org/>

MORE SIZES. MORE STYLES. IN STOCK.

**This catalogue represents only a small fraction
of our inventory.**

**If we don't have it in stock, we will source it
for you.**

CALL OUR TEAM TODAY



INDEX

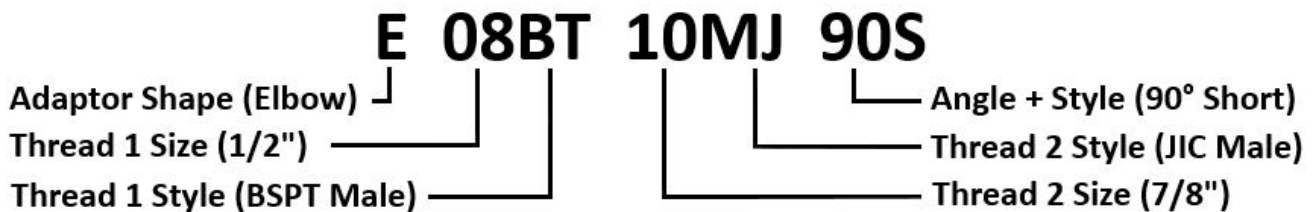
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ADAPTOR IDENTIFICATION & DASH SIZING GUIDE

1. UNDERSTANDING THE PART NUMBER LOGIC

Our part numbers follow a structured 4 step sequence to define the shape, size and connection style of each fitting.

- 1st = Adaptor Shape Defines the body style (Eg. N=Nipple, E=Elbow)
- 2nd = Primary Side The thread size + thread style of the first connection
- 3rd = Opposing Side The thread size + thread style of the opposing connection
- 4th = Angle/Length/Finish Defines the specific angle and physical length, if applicable



2. DASH SIZING & THREAD REFERENCE CHART

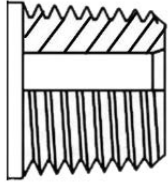
Use the table below to cross-reference **Dash Sizes** with nominal dimensions and **Threads Per Inch (TPI)** across common standards

| DASH SIZE | NOM. HOSE ID | R5 HOSE ID | BSP-TPI | NPT-TPI | JIC/UNO-TPI | SAE/PTT-TPI | ORFS-TPI |
|-----------|--------------|------------|-------------|-----------------|--------------|--------------|---------------|
| -02 | 1/8" | N/A | 1/8" - 28 | 1/8" - 27 | N/A | N/A | N/A |
| -03 | 3/16" | N/A | N/A | N/A | 3/8" - 24 | 3/8" - 24 | N/A |
| -04 | 1/4" | 3/16" | 1/4" - 19 | 1/4" - 18 | 7/16" - 20 | 7/16" - 20 | 9/16" - 18 |
| -05 | 5/16" | 1/4" | N/A | N/A | 1/2" - 20 | 1/2" - 20 | N/A |
| -06 | 3/8" | 5/16" | 3/8" - 19 | 3/8" - 18 | 9/16" - 18 | 5/8" - 18 | 11/16" - 16 |
| -08 | 1/2" | 13/32" | 1/2" - 14 | 1/2" - 14 | 3/4" - 16 | 3/4" - 16 | 13/16" - 16 |
| -10 | 5/8" | 1/2" | 5/8" - 14 | N/A | 7/8" - 14 | 7/8" - 14 | 1" - 14 |
| -12 | 3/4" | 5/8" | 3/4" - 14 | 3/4" - 14 | 1 1/16" - 12 | 1 1/16" - 14 | 1 3/16" - 12 |
| -14 | 7/8" | N/A | N/A | N/A | 1 3/16" - 12 | N/A | N/A |
| -16 | 1" | 7/8" | 1" - 11 | 1" - 11 1/2 | 1 5/16" - 12 | 1 5/16" - 14 | 1 7/16" - 12 |
| -20 | 1 1/4" | 1 1/8" | 1 1/4" - 11 | 1 1/4" - 11 1/2 | 1 5/8" - 12 | 1 5/8" - 14 | 1 11/16" - 12 |
| -24 | 1 1/2" | 1 3/8" | 1 1/2" - 11 | 1 1/2" - 11 1/2 | 1 7/8" - 12 | 1 7/8" - 14 | 2" - 12 |
| -32 | 2" | 1 7/8" | 2" - 11 | 2" - 11 1/2 | 2 1/2" - 12 | 2 1/2" - 12 | N/A |
| -40 | 2 1/2" | 2 3/8" | 2 1/2" - 11 | 2 1/2" - 8 | 3" - 12 | N/A | N/A |

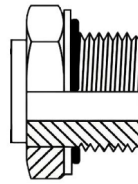
PREFIXES

BSP

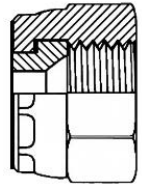
PREFIX: **BT**
BSPT MALE
TAPER



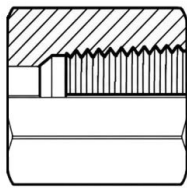
PREFIX: **BP**
BSPP MALE
PARALLEL



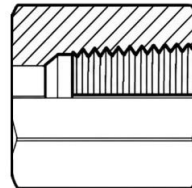
PREFIX: **BF**
BSPP FEMALE
SWIVEL
60° CONE



PREFIX: **BS**
BSPT FEMALE
FIXED
TAPER

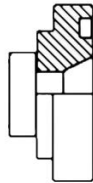


PREFIX: **BPF**
BSPP FEMALE
FIXED
PARALLEL

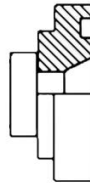


FLANGE HEAD

PREFIX: **FL**
CODE 61
3000 PSI

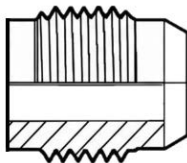


PREFIX: **FH**
CODE 62
6000 PSI

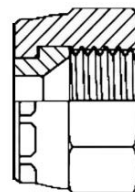


JIC

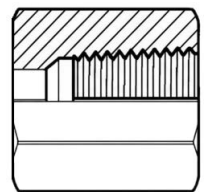
PREFIX: **MJ**
JIC MALE
37°



PREFIX: **FJ**
JIC FEMALE
SWIVEL

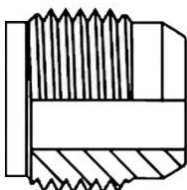


PREFIX: **FJF**
JIC FEMALE
FIXED

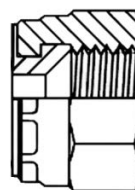


SAE

PREFIX: **MA**
SAE MALE
45°
BRASS



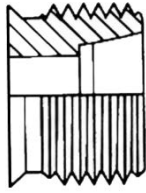
PREFIX: **FA**
SAE FEMALE
SWIVEL 45°
BRASS



PREFIXES

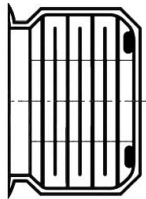
METRIC

PREFIX: **DX**
METRIC
STUD MALE

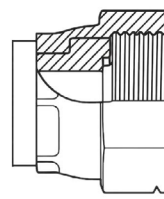


O-RING FACE SEAL

PREFIX: **OM**
O-RING FACE
MALE

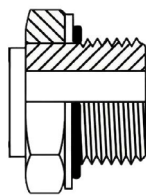


PREFIX: **OF**
O-RING FACE
SWIVEL
FEMALE

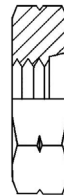


UNO

PREFIX: **RA**
O-RING
BOSS MALE

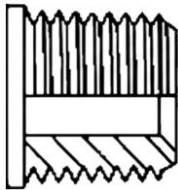


PREFIX: **RF**
UNO
FEMALE
FIXED

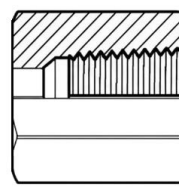


NPT

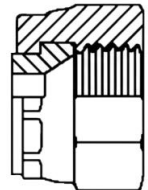
PREFIX: **MP**
NPT MALE
PIPE
THREAD



PREFIX: **FF**
NPT FEMALE
FIXED

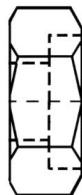


PREFIX: **FN**
NPT FEMALE
SWIVEL



SPECIALS

PREFIX: **W**
WELD ON



ADAPTOR COMPONENT GLOSSARY

FITTINGS, PLUGS AND TUBING (SHAPE)

| CODE | DESCRIPTION | CODE | DESCRIPTION |
|---------------|------------------------------|------------|-----------------------|
| A | ADAPTORS | MZ | METRIC SEALING WASHER |
| CDS | COLD DRAWN SEAMLESS | N | NIPPLE |
| CN | CAP NUT | NBH | NIPPLE BULKHEAD |
| E | ELBOW | OR | O-RING |
| EBH | ELBOW BULKHEAD | P | PLUG |
| FC2875 | JIC VERSIL FLARE NUT | R | REDUCER |
| FF9605 | VERSIL FLARE FERRULE | S | SOCKET |
| FH | FLANGE CODE 62 | SW | SEALING WASHER |
| FJF | FIXED FEMALE JIC | T | TEE |
| FL | FLANGE CODE 61 | TBH | TEE BULKHEAD |
| MPAK | NPT SOCKETHEAD PLUG | TN | TUBE NUT |
| MPSH | NPT MALE SQUARE HEAD PLUG | TS | TUBE SLEEVE |
| | | W | WELD ON |

THREADS AND CONNECTIONS TYPE (THREAD STYLE)

| CODE | DESCRIPTION | CODE | DESCRIPTION |
|------------|------------------------------|------------|--------------------|
| BF | BSPP FEMALE SWIVEL | MJ | JIC MALE |
| BFG | BSPP FEMALE GAUGE ADAPTOR | MJ1 | JIC MALE RUN |
| BP | BSPP MALE | MJ3 | JIC MALE DROP |
| BPF | BSPP FEMALE | MP | NPT MALE |
| BS | BSPT FEMALE | MPL | NPT MALE LONG |
| BT | BSPT MALE | OD | WELD ON TUBE |
| DX | METRIC MALE | OF | ORFS FEMALE SWIVEL |
| FA | SAE FEMALE | OM | ORFS MALE |
| FF | NPT FEMALE | RA | UNO MALE |
| FJ | JIC FEMALE | RAL | UNO MALE LONG |
| FN | NPT FEMALE SWIVEL | RF | UNO FEMALE |
| MA | SAE MALE | UNF | UNF FEMALE |



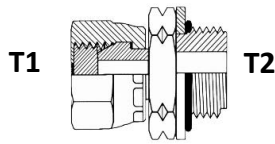
ADAPTOR COMPONENT GLOSSARY

MATERIALS, FINISHES AND SIZES (LENGTH / FINISH)

| CODE | DESCRIPTION | CODE | DESCRIPTION |
|-----------|----------------|-----------|-----------------|
| B | BRASS | MF | MATT FINISH |
| BR | BRIGHT | S | SHORT |
| EL | EXTRA LONG | SS | STAINLESS STEEL |
| I | IMPERIAL | T | TUBE BEND |
| L | LONG TUBE BEND | ZP | ZINC PLATED |
| M | METRIC | | |

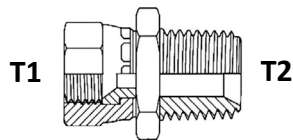
ADAPTORS

BSPP X BSPP F/M ADAPTOR - SWIVEL



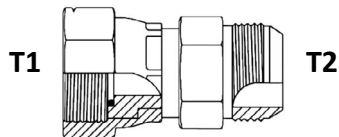
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP |
|-------------|-------------------|-------------------|
| A04BF04BP | 1/4" | 1/4" |
| A06BF06BP | 3/8" | 3/8" |
| A08BF08BP | 1/2" | 1/2" |
| A12BF12BP | 3/4" | 3/4" |
| A16BF16BP | 1" | 1" |

BSPP X BSPT F/M ADAPTOR - SWIVEL



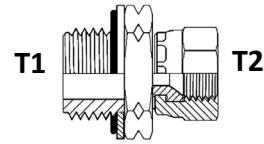
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| A04BF04BT | 1/4" | 1/4" |
| A06BF06BT | 3/8" | 3/8" |
| A08BF08BT | 1/2" | 1/2" |
| A12BF12BT | 3/4" | 3/4" |
| A16BF16BT | 1" | 1" |
| A20BF20BT | 1 1/4" | 1 1/4" |

BSPP X JIC F/M ADAPTOR - SWIVEL



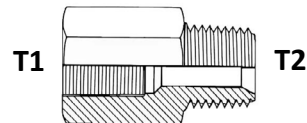
| PART NUMBER | THREAD T1 BSPP | THREAD T2 JIC |
|-------------|-------------------|------------------|
| A04BF04MJ | 1/4" | 7/16" |
| A06BF06MJ | 3/8" | 9/16" |
| A08BF08MJ | 1/2" | 3/4" |
| A12BF08MJ | 3/4" | 3/4" |
| A12BF12MJ | 3/4" | 1 1/16" |

BSPP X JIC M/F ADAPTOR - SWIVEL



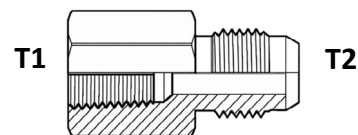
| PART NUMBER | THREAD T1 BSPP | THREAD T2 JIC |
|-------------|-------------------|------------------|
| A04BP06FJ | 1/4" | 9/16" |
| A06BP06FJ | 3/8" | 9/16" |
| A06BP08FJ | 3/8" | 3/4" |
| A08BP08FJ | 1/2" | 3/4" |
| A08BP10FJ | 1/2" | 7/8" |
| A08BP12FJ | 1/2" | 1 1/16" |
| A12BP08FJ | 3/4" | 3/4" |
| A12BP12FJ | 3/4" | 1 1/16" |
| A16BP16FJ | 1" | 1 5/16" |

BSPT X BSPT F/M ADAPTOR



| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| A02BS02BT | 1/8" | 1/8" |
| A04BS02BT | 1/4" | 1/8" |
| A04BS04BT | 1/4" | 1/4" |
| A06BS04BT | 3/8" | 1/4" |

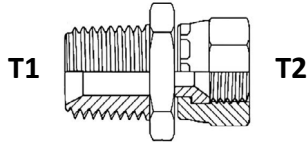
BSPT X JIC F/M ADAPTOR



| PART NUMBER | THREAD T1 BSPT | THREAD T2 JIC |
|-------------|-------------------|------------------|
| A04BS04MJ | 1/4" | 7/16" |
| A04BS06MJ | 1/4" | 9/16" |
| A08BS06MJ | 1/2" | 9/16" |
| A08BS08MJ | 1/2" | 3/4" |
| A08BS10MJ | 1/2" | 7/8" |

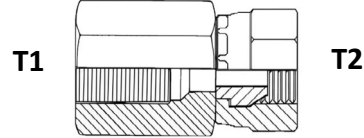
ADAPTORS

BSPT X JIC M/F ADAPTOR - SWIVEL



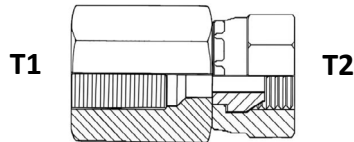
| PART NUMBER | THREAD T1 BSPT | THREAD T2 JIC |
|-------------|-------------------|------------------|
| A04BT04FJ | 1/4" | 7/16" |
| A04BT06FJ | 1/4" | 9/16" |
| A06BT06FJ | 3/8" | 9/16" |
| A06BT08FJ | 3/8" | 3/4" |
| A06BT10FJ | 3/8" | 7/8" |
| A08BT08FJ | 1/2" | 3/4" |
| A08BT10FJ | 1/2" | 7/8" |
| A12BT10FJ | 3/4" | 7/8" |
| A12BT12FJ | 3/4" | 1 1/16" |
| A16BT16FJ | 1" | 1 5/16" |
| A20BT20FJ | 1 1/4" | 1 5/8" |

NPT X NPT F/F ADAPTOR - SWIVEL



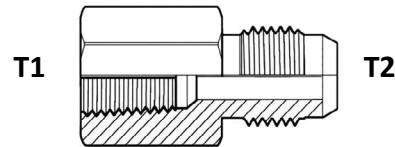
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|-------------|------------------|------------------|
| A02FF02FN | 1/8" | 1/8" |
| A04FF04FN | 1/4" | 1/4" |
| A06FF06FN | 3/8" | 3/8" |
| A08FF08FN | 1/2" | 1/2" |
| A12FF12FN | 3/4" | 3/4" |
| A16FF16FN | 1" | 1" |
| A20FF20FN | 1 1/4" | 1 1/4" |

NPT X JIC F/F ADAPTOR - SWIVEL



| PART NUMBER | THREAD T1 NPT | THREAD T2 JIC |
|-------------|------------------|------------------|
| A02FF04FJ | 1/8" | 7/16" |
| A04FF04FJ | 1/4" | 7/16" |
| A06FF06FJ | 3/8" | 9/16" |
| A06FF08FJ | 3/8" | 3/4" |
| A08FF08FJ | 1/2" | 3/4" |
| A08FF10FJ | 1/2" | 7/8" |
| A12FF12FJ | 3/4" | 1 1/16" |

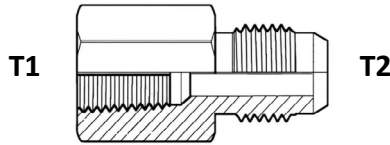
NPT X SAE F/M ADAPTOR - BRASS



| PART NUMBER | THREAD T1 NPT | THREAD T2 SAE |
|-------------|------------------|------------------|
| A02FF04MA | 1/8" | 7/16" |
| A02FF05MA | 1/8" | 1/2" |
| A04FF04MA | 1/4" | 7/16" |
| A04FF05MA | 1/4" | 1/2" |
| A04FF06MA | 1/4" | 5/8" |
| A06FF06MA | 3/8" | 5/8" |
| A06FF08MA | 3/8" | 3/4" |
| A06FF10MA | 3/8" | 7/8" |
| A08FF06MA | 1/2" | 5/8" |
| A08FF08MA | 1/2" | 3/4" |
| A08FF10MA | 1/2" | 7/8" |
| A08FF12MA | 1/2" | 1 1/16" |
| A12FF12MA | 3/4" | 1 1/16" |

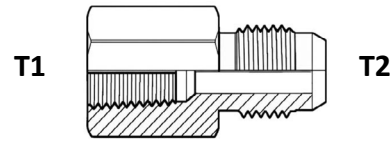
ADAPTORS

NPT X JIC F/M ADAPTOR



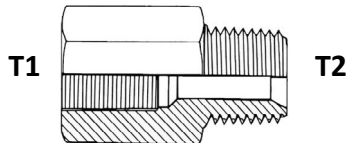
| PART NUMBER | THREAD T1 NPT | THREAD T2 JIC |
|-------------|------------------|------------------|
| A02FF04MJ | 1/8" | 7/16" |
| A02FF05MJ | 1/8" | 1/2" |
| A04FF04MJ | 1/4" | 7/16" |
| A04FF05MJ | 1/4" | 1/2" |
| A04FF06MJ | 1/4" | 9/16" |
| A06FF06MJ | 3/8" | 9/16" |
| A06FF08MJ | 3/8" | 3/4" |
| A08FF06MJ | 1/2" | 9/16" |
| A08FF08MJ | 1/2" | 3/4" |
| A08FF10MJ | 1/2" | 7/8" |
| A08FF12MJ | 1/2" | 1 1/16" |
| A12FF08MJ | 3/4" | 3/4" |
| A12FF10MJ | 3/4" | 7/8" |
| A12FF12MJ | 3/4" | 1 1/16" |
| A16FF16MJ | 1" | 1 5/16" |

JIC X JIC F/M ADAPTOR



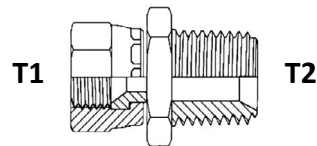
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|-------------|------------------|------------------|
| A04FJF06MJ | 7/16" | 9/16" |
| A04FJF08MJ | 7/16" | 3/4" |
| A05FJF04MJ | 1/2" | 7/16" |
| A06FJF05MJ | 9/16" | 1/2" |
| A06FJF06MJ | 9/16" | 9/16" |
| A06FJF08MJ | 9/16" | 3/4" |
| A08FJF10MJ | 3/4" | 7/8" |
| A10FJF08MJ | 7/8" | 3/4" |
| A10FJF12MJ | 7/8" | 1 1/16" |
| A12FJF10MJ | 1 1/16" | 7/8" |
| A12FJF16MJ | 1 1/16" | 1 5/16" |
| A16FJF08MJ | 1 5/16" | 3/4" |
| A16FJF12MJ | 1 5/16" | 1 1/16" |
| A16FJF20MJ | 1 5/16" | 1 5/8" |
| A20FJF16MJ | 1 5/8" | 1 5/16" |
| A24FJF20MJ | 1 7/8" | 1 5/8" |

NPT X NPT F/M ADAPTOR



| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|-------------|------------------|------------------|
| A02FF02MP | 1/8" | 1/8" |
| A04FF02MP | 1/4" | 1/8" |
| A04FF04MP | 1/4" | 1/4" |
| A06FF04MP | 3/8" | 1/4" |
| A06FF06MP | 3/8" | 3/8" |
| A08FF04MP | 1/2" | 1/4" |
| A08FF06MP | 1/2" | 3/8" |
| A08FF08MP | 1/2" | 1/2" |
| A12FF08MP | 3/4" | 1/2" |
| A12FF12MP | 3/4" | 3/4" |
| A20FF16MP | 1 1/4" | 1" |
| A20FF20MP | 1 1/4" | 1 1/4" |
| A24FF16MP | 1 1/2" | 1" |

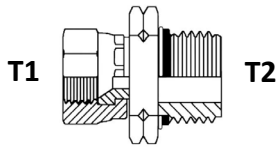
JIC X NPT F/M ADAPTOR - SWIVEL



| PART NUMBER | THREAD T1 JIC | THREAD T2 NPT |
|-------------|------------------|------------------|
| A04FJ04MP | 7/16" | 1/4" |
| A04FJ06MP | 7/16" | 3/8" |
| A06FJ04MP | 9/16" | 1/4" |
| A08FJ06MP | 3/4" | 3/8" |
| A08FJ08MP | 3/4" | 1/2" |
| A12FJ12MP | 1 1/16" | 3/4" |
| A16FJ16MP | 1 5/16" | 1" |
| A20FJ20MP | 1 5/8" | 1 1/4" |

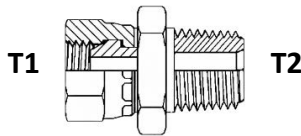
ADAPTORS

JIC X UNO F/M ADAPTOR – SWIVEL



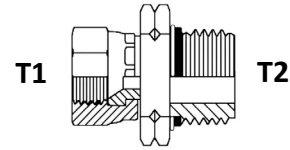
| PART NUMBER | THREAD T1 JIC | THREAD T2 UNO |
|-------------|------------------|------------------|
| A04FJ04RA | 7/16" | 7/16" |
| A04FJ06RA | 7/16" | 9/16" |
| A06FJ06RA | 9/16" | 9/16" |
| A08FJ08RA | 3/4" | 3/4" |
| A10FJ10RA | 7/8" | 7/8" |
| A12FJ12RA | 1 1/16" | 1 1/16" |
| A16FJ16RA | 1 5/16" | 1 5/16" |
| A20FJ20RA | 1 5/8" | 1 5/8" |

NPT X NPT F/M ADAPTOR - SWIVEL



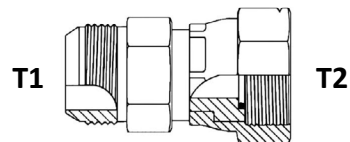
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|-------------|------------------|------------------|
| A02FN02MP | 1/8" | 1/8" |
| A04FN04MP | 1/4" | 1/4" |
| A06FN04MP | 3/8" | 1/4" |
| A06FN06MP | 3/8" | 3/8" |
| A06FN08MP | 3/8" | 1/2" |
| A08FN06MP | 1/2" | 3/8" |
| A08FN08MP | 1/2" | 1/2" |
| A08FN12MP | 1/2" | 3/4" |
| A12FN08MP | 3/4" | 1/2" |
| A12FN12MP | 3/4" | 3/4" |
| A12FN16MP | 3/4" | 1" |
| A16FN12MP | 1" | 3/4" |
| A16FN16MP | 1" | 1" |
| A16FN20MP | 1" | 1 1/4" |
| A20FN20MP | 1 1/4" | 1 1/4" |
| A24FN24MP | 1 1/2" | 1 1/2" |
| A32FN32MP | 2" | 2" |

NPT X UNO F/M ADAPTOR - SWIVEL



| PART NUMBER | THREAD T1 NPT | THREAD T2 UNO |
|-------------|------------------|------------------|
| A04FN04RA | 1/4" | 7/16" |
| A04FN06RA | 1/4" | 9/16" |
| A06FN06RA | 3/8" | 9/16" |
| A06FN08RA | 3/8" | 3/4" |
| A06FN10RA | 3/8" | 7/8" |
| A08FN08RA | 1/2" | 3/4" |
| A08FN10RA | 1/2" | 7/8" |
| A12FN08RA | 3/4" | 3/4" |
| A12FN10RA | 3/4" | 7/8" |
| A12FN12RA | 3/4" | 1 1/16" |
| A16FN16RA | 1" | 1 5/16" |
| A20FN20RA | 1 1/4" | 1 5/8" |
| A24FN24RA | 1 1/2" | 1 7/8" |

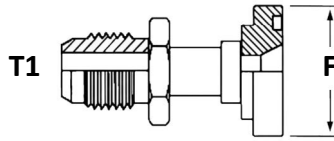
JIC X ORFS M/F ADAPTOR – SWIVEL



| PART NUMBER | THREAD T1 JIC | THREAD T2 ORFS |
|-------------|------------------|-------------------|
| A04MJ04OF | 7/16" | 9/16" |
| A06MJ06OF | 9/16" | 11/16" |
| A06MJ08OF | 9/16" | 13/16" |
| A08MJ08OF | 3/4" | 13/16" |
| A10MJ12OF | 7/8" | 1 3/16" |
| A12MJ12OF | 1 1/16" | 1 3/16" |
| A16MJ16OF | 1 5/16" | 1 7/16" |

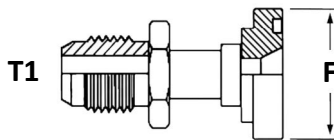
ADAPTORS

FLANGE CODE 61 X JIC ADAPTOR



| PART NUMBER | NOM. FLANGE SIZE | THREAD T1 JIC | FLANGE OD |
|-------------|------------------|---------------|-----------|
| A08FL08MJ | 1/2" | 3/4" | 1 3/16" |
| A12FL08MJ | 3/4" | 3/4" | 1 1/2" |
| A12FL12MJ | 3/4" | 1 1/16" | 1 1/2" |
| A16FL12MJ | 1" | 1 1/16" | 1 3/4" |
| A16FL16MJ | 1" | 1 5/16" | 1 3/4" |
| A20FL16MJ | 1 1/4" | 1 5/16" | 2" |
| A20FL20MJ | 1 1/4" | 1 5/8" | 2" |
| A24FL20MJ | 1 1/2" | 1 5/8" | 2 3/8" |
| A24FL24MJ | 1 1/2" | 1 7/8" | 2 3/8" |
| A32FL20MJ | 2" | 1 5/8" | 2 13/16" |
| A32FL24MJ | 2" | 1 7/8" | 2 13/16" |
| A32FL32MJ | 2" | 2 1/2" | 2 13/16" |

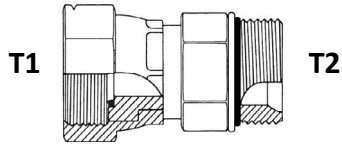
FLANGE CODE 62 X JIC ADAPTOR



| PART NUMBER | NOM. FLANGE SIZE | THREAD T1 JIC | FLANGE OD |
|-------------|------------------|---------------|-----------|
| A12FH12MJ | 3/4" | 1 1/16" | 1 5/8" |
| A16FH12MJ | 1" | 1 1/16" | 1 7/8" |
| A16FH16MJ | 1" | 1 5/16" | 1 7/8" |
| A20FH16MJ | 1 1/4" | 1 5/16" | 2 1/8" |
| A20FH20MJ | 1 1/4" | 1 5/8" | 2 1/8" |
| A20FH24MJ | 1 1/4" | 1 7/8" | 2 1/8" |
| A24FH20MJ | 1 1/2" | 1 5/8" | 2 1/2" |
| A24FH24MJ | 1 1/2" | 1 7/8" | 2 1/2" |

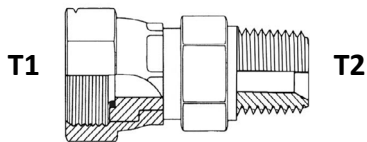
ADAPTORS

GAUGE ADAPTOR BSPP X BSPP F/M



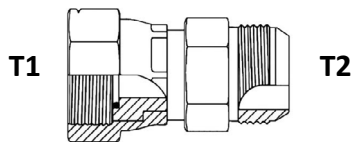
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP |
|-------------|-------------------|-------------------|
| A04BFG04BP | 1/4" | 1/4" |
| A08BFG08BP | 1/2" | 1/2" |

GAUGE ADAPTOR BSPP X BSPT F/M



| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| A04BFG04BT | 1/4" | 1/4" |
| A08BFG08BT | 1/2" | 1/2" |

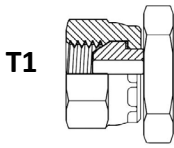
GAUGE ADAPTOR BSPP X JIC F/M



| PART NUMBER | THREAD T1 BSPP | THREAD T2 JIC |
|-------------|-------------------|------------------|
| A04BFG06MJ | 1/4" | 9/16" |
| A08BFG06MJ | 1/2" | 9/16" |

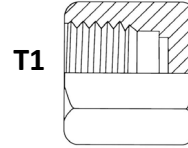
CAP NUTS & CROSSES

BSPP CAP NUT - SWIVEL



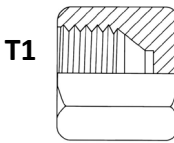
| PART NUMBER | THREAD T1 BSPP |
|-------------|-------------------|
| CN02BF | 1/8" |
| CN04BF | 1/4" |
| CN06BF | 3/8" |
| CN08BF | 1/2" |
| CN10BF | 5/8" |
| CN12BF | 3/4" |
| CN16BF | 1" |
| CN20BF | 1 1/4" |
| CN24BF | 1 1/2" |
| CN32BF | 2" |

ORFS CAP NUT



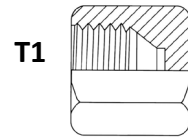
| PART NUMBER | THREAD T1 ORFS |
|-------------|-------------------|
| CN04OF | 9/16" |
| CN06OF | 11/16" |
| CN08OF | 13/16" |
| CN10OF | 1" |
| CN12OF | 1 3/16" |
| CN16OF | 1 7/16" |
| CN20OF | 1 11/16" |
| CN24OF | 2" |

JIC CAP NUT



| PART NUMBER | THREAD T1 JIC |
|-------------|------------------|
| CN02FJF | 5/16" |
| CN03FJF | 3/8" |
| CN04FJF | 7/16" |
| CN05FJF | 1/2" |
| CN06FJF | 9/16" |
| CN08FJF | 3/4" |
| CN10FJF | 7/8" |
| CN12FJF | 1 1/16" |
| CN14FJF | 1 3/16" |
| CN16FJF | 1 5/16" |
| CN20FJF | 1 5/8" |
| CN24FJF | 1 7/8" |
| CN32FJF | 2 1/2" |
| CN40FJF | 3" |

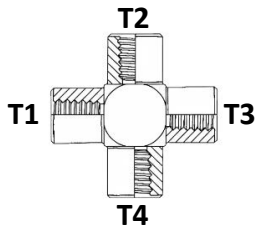
NPT CAP NUT



| PART NUMBER | THREAD T1 NPT |
|-------------|------------------|
| CN02FF | 1/8" |
| CN04FF | 1/4" |
| CN06FF | 3/8" |
| CN08FF | 1/2" |
| CN12FF | 3/4" |
| CN16FF | 1" |

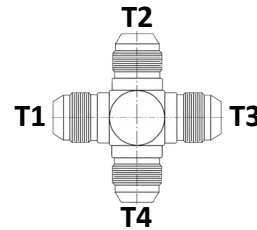
CAP NUTS & CROSSES

BSPF FEMALE EQUAL CROSS



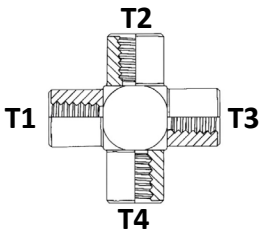
| PART NUMBER | THREAD T1, T2, T3, T4 BSPF |
|-------------|-------------------------------|
| CR02BPF | 1/8" |
| CR04BPF | 1/4" |
| CR06BPF | 3/8" |
| CR08BPF | 1/2" |
| CR12BPF | 3/4" |
| CR16BPF | 1" |
| CR20BPF | 1 1/4" |

JIC MALE EQUAL CROSS



| PART NUMBER | THREAD T1, T2, T3, T4 JIC |
|-------------|------------------------------|
| CR04MJ | 7/16" |
| CR06MJ | 9/16" |
| CR08MJ | 3/4" |
| CR12MJ | 1 1/16" |

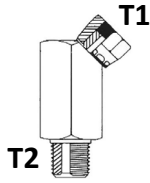
NPT FEMALE EQUAL CROSS



| PART NUMBER | THREAD T1, T2, T3, T4 NPT |
|-------------|------------------------------|
| CR02FF | 1/8" |
| CR04FF | 1/4" |
| CR06FF | 3/8" |
| CR08FF | 1/2" |
| CR12FF | 3/4" |

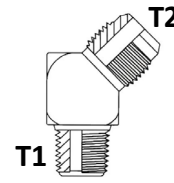
ELBOWS 45°

BSPP X BSPT F/M 45° ELBOW - SWIVEL



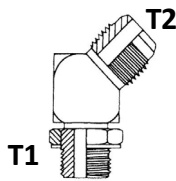
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPT |
|--------------|-------------------|-------------------|
| E02BF02BT45S | 1/8" | 1/8" |
| E04BF04BT45S | 1/4" | 1/4" |
| E06BF06BT45S | 3/8" | 3/8" |
| E08BF08BT45S | 1/2" | 1/2" |
| E12BF12BT45S | 3/4" | 3/4" |
| E16BF16BT45S | 1" | 1" |
| E20BF20BT45S | 1 1/4" | 1 1/4" |

BSPT X JIC M/M 45° ELBOW



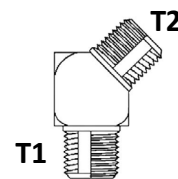
| PART NUMBER | THREAD T1 BSPT | THREAD T2 JIC |
|--------------|-------------------|------------------|
| E02BT04MJ45S | 1/8" | 7/16" |
| E04BT04MJ45S | 1/4" | 7/16" |
| E04BT06MJ45S | 1/4" | 9/16" |
| E06BT06MJ45S | 3/8" | 9/16" |
| E06BT08MJ45S | 3/8" | 3/4" |
| E08BT06MJ45S | 1/2" | 9/16" |
| E08BT08MJ45S | 1/2" | 3/4" |
| E08BT10MJ45S | 1/2" | 7/8" |
| E12BT12MJ45S | 3/4" | 1 1/16" |
| E16BT16MJ45S | 1" | 1 5/16" |
| E20BT20MJ45S | 1 1/4" | 1 5/8" |

BSPP X JIC M/M 45° ELBOW



| PART NUMBER | THREAD T1 BSPP | THREAD T2 JIC |
|--------------|-------------------|------------------|
| E04BP04MJ45S | 1/4" | 7/16" |
| E06BP06MJ45S | 3/8" | 9/16" |
| E08BP08MJ45S | 1/2" | 3/4" |
| E12BP08MJ45S | 3/4" | 3/4" |
| E12BP12MJ45S | 3/4" | 1 1/16" |
| E16BP12MJ45S | 1" | 1 1/16" |
| E16BP16MJ45S | 1" | 1 5/16" |

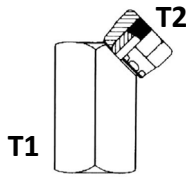
BSPT X BSPT M/M 45° ELBOW



| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| E04BT45S | 1/4" | 1/4" |
| E06BT45S | 3/8" | 3/8" |
| E08BT45S | 1/2" | 1/2" |
| E12BT45S | 3/4" | 3/4" |
| E16BT45S | 1" | 1" |
| E20BT45S | 1 1/4" | 1 1/4" |

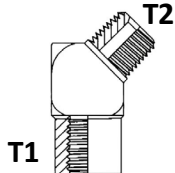
ELBOWS 45°

NPT X NPT F/F 45° ELBOW - SWIVEL



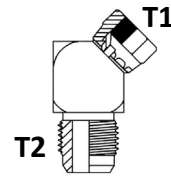
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|--------------|------------------|------------------|
| E04FF04FN45S | 1/4" | 1/4" |
| E06FF06FN45S | 3/8" | 3/8" |
| E08FF08FN45S | 1/2" | 1/2" |

NPT X NPT F/M 45° ELBOW



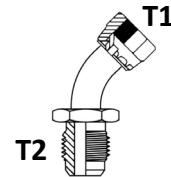
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|--------------|------------------|------------------|
| E02FF02MP45S | 1/8" | 1/8" |
| E04FF04MP45S | 1/4" | 1/4" |
| E06FF06MP45S | 3/8" | 3/8" |
| E08FF08MP45S | 1/2" | 1/2" |
| E12FF12MP45S | 3/4" | 3/4" |
| E16FF16MP45S | 1" | 1" |
| E20FF20MP45S | 1 1/4" | 1 1/4" |
| E24FF24MP45S | 1 1/2" | 1 1/2" |
| E32FF32MP45S | 2" | 2" |

JIC X JIC F/M 45° ELBOW - SWIVEL



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|--------------|------------------|------------------|
| E04FJ04MJ45S | 7/16" | 7/16" |
| E05FJ05MJ45S | 1/2" | 1/2" |
| E06FJ06MJ45S | 9/16" | 9/16" |
| E08FJ08MJ45S | 3/4" | 3/4" |
| E10FJ10MJ45S | 7/8" | 7/8" |
| E12FJ12MJ45S | 1 1/16" | 1 1/16" |
| E16FJ16MJ45S | 1 5/16" | 1 5/16" |
| E20FJ20MJ45S | 1 5/8" | 1 5/8" |
| E24FJ24MJ45S | 1 7/8" | 1 7/8" |
| E32FJ32MJ45S | 2 1/2" | 2 1/2" |

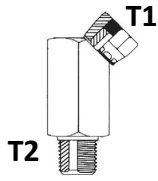
JIC X JIC F/M 45° TUBE ELBOW - SWIVEL



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|--------------|------------------|------------------|
| E04FJ04MJ45T | 7/16" | 7/16" |
| E05FJ05MJ45T | 1/2" | 1/2" |
| E06FJ06MJ45T | 9/16" | 9/16" |
| E08FJ08MJ45T | 3/4" | 3/4" |
| E10FJ10MJ45T | 7/8" | 7/8" |
| E12FJ12MJ45T | 1 1/16" | 1 1/16" |
| E16FJ16MJ45T | 1 5/16" | 1 5/16" |

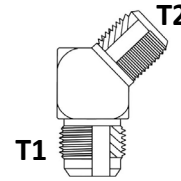
ELBOWS 45°

NPT X NPT F/M 45° ELBOW - SWIVEL



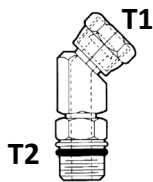
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|--------------|---------------|---------------|
| E02FN02MP45S | 1/8" | 1/8" |
| E04FN04MP45S | 1/4" | 1/4" |
| E06FN06MP45S | 3/8" | 3/8" |
| E08FN08MP45S | 1/2" | 1/2" |
| E08FN12MP45S | 1/2" | 3/4" |
| E12FN12MP45S | 3/4" | 3/4" |
| E16FN16MP45S | 1" | 1" |
| E20FN20MP45S | 1 1/4" | 1 1/4" |
| E24FN24MP45S | 1 1/2" | 1 1/2" |

SAE X NPT M/M 45° ELBOW - BRASS



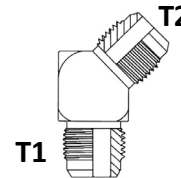
| PART NUMBER | THREAD T1 SAE | THREAD T2 NPT |
|--------------|---------------|---------------|
| E04MA02MP45S | 7/16" | 1/8" |
| E06MA04MP45S | 5/8" | 1/4" |
| E06MA06MP45S | 5/8" | 3/8" |
| E08MA06MP45S | 3/4" | 3/8" |
| E10MA08MP45S | 7/8" | 1/2" |

NPT X UNO F/M 45° ELBOW - SWIVEL



| PART NUMBER | THREAD T1 NPT | THREAD T2 UNO |
|--------------|---------------|---------------|
| E06FN06RA45S | 3/8" | 9/16" |
| E06FN08RA45S | 3/8" | 3/4" |
| E08FN08RA45S | 1/2" | 3/4" |
| E08FN10RA45S | 1/2" | 7/8" |
| E12FN12RA45S | 3/4" | 1 1/16" |
| E16FN16RA45S | 1" | 1 5/16" |

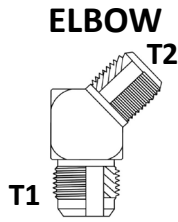
JIC X JIC M/M 45° ELBOW



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|-------------|---------------|---------------|
| E04MJ45S | 7/16" | 7/16" |
| E06MJ45S | 9/16" | 9/16" |
| E08MJ45S | 3/4" | 3/4" |
| E10MJ45S | 7/8" | 7/8" |
| E12MJ45S | 1 1/16" | 1 1/16" |
| E16MJ45S | 1 5/16" | 1 5/16" |

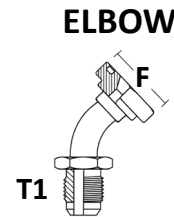
ELBOWS 45°

JIC X NPT M/M 45°



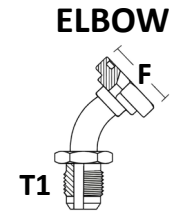
| PART NUMBER | THREAD T1 JIC | THREAD T2 NPT |
|--------------|------------------|------------------|
| E04MJ02MP45S | 7/16" | 1/8" |
| E04MJ04MP45S | 7/16" | 1/4" |
| E04MJ06MP45S | 7/16" | 3/8" |
| E05MJ02MP45S | 1/2" | 1/8" |
| E05MJ04MP45S | 1/2" | 1/4" |
| E06MJ02MP45S | 9/16" | 1/8" |
| E06MJ04MP45S | 9/16" | 1/4" |
| E06MJ06MP45S | 9/16" | 3/8" |
| E06MJ08MP45S | 9/16" | 1/2" |
| E08MJ04MP45S | 3/4" | 1/4" |
| E08MJ06MP45S | 3/4" | 3/8" |
| E08MJ08MP45S | 3/4" | 1/2" |
| E08MJ12MP45S | 3/4" | 3/4" |
| E10MJ06MP45S | 7/8" | 3/8" |
| E10MJ08MP45S | 7/8" | 1/2" |
| E10MJ12MP45S | 7/8" | 3/4" |
| E12MJ08MP45S | 1 1/16" | 1/2" |
| E12MJ12MP45S | 1 1/16" | 3/4" |
| E12MJ16MP45S | 1 1/16" | 1" |
| E16MJ12MP45S | 1 5/16" | 3/4" |
| E16MJ16MP45S | 1 5/16" | 1" |
| E20MJ16MP45S | 1 5/8" | 1" |
| E20MJ20MP45S | 1 5/8" | 1 1/4" |
| E24MJ24MP45S | 1 7/8" | 1 1/2" |
| E32MJ32MP45S | 2 1/2" | 2" |

FLANGE CODE 61 X JIC 45°



| PART NUMBER | NOM. FLANGE SIZE | THREAD T1 JIC | FLANGE OD |
|--------------|------------------|------------------|-----------|
| E08FL08MJ45T | 1/2" | 3/4" | 1 3/16" |
| E12FL12MJ45T | 3/4" | 1 1/16" | 1 1/2" |
| E16FL12MJ45T | 1" | 1 1/16" | 1 3/4" |
| E16FL16MJ45T | 1" | 1 5/16" | 1 3/4" |
| E20FL16MJ45T | 1 1/4" | 1 5/16" | 2" |
| E20FL20MJ45T | 1 1/4" | 1 5/8" | 2" |
| E24FL20MJ45T | 1 1/2" | 1 5/8" | 2 3/8" |
| E24FL24MJ45T | 1 1/2" | 1 7/8" | 2 3/8" |
| E32FL32MJ45T | 2" | 2 1/2" | 2 13/16" |

FLANGE CODE 62 X JIC 45°

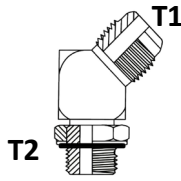


| PART NUMBER | NOM. FLANGE SIZE | THREAD T1 JIC | FLANGE OD |
|--------------|------------------|------------------|-----------|
| E12FH12MJ45T | 3/4" | 1 1/16" | 1 5/8" |
| E16FH12MJ45T | 1" | 1 1/16" | 1 7/8" |
| E16FH16MJ45T | 1" | 1 5/16" | 1 7/8" |
| E20FH16MJ45T | 1 1/4" | 1 5/16" | 2 1/8" |
| E20FH20MJ45T | 1 1/4" | 1 5/8" | 2 1/8" |
| E24FH20MJ45T | 1 1/2" | 1 5/8" | 2 1/2" |
| E24FH24MJ45T | 1 1/2" | 1 7/8" | 2 1/2" |

ELBOWS 45°

JIC X UNO M/M 45°

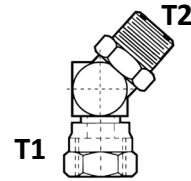
ELBOW



| PART NUMBER | THREAD T1 JIC | THREAD T2 UNO |
|--------------|------------------|------------------|
| E04MJ04RA45S | 7/16" | 7/16" |
| E05MJ05RA45S | 1/2" | 1/2" |
| E06MJ06RA45S | 9/16" | 9/16" |
| E06MJ08RA45S | 9/16" | 3/4" |
| E08MJ06RA45S | 3/4" | 9/16" |
| E08MJ08RA45S | 3/4" | 3/4" |
| E08MJ10RA45S | 3/4" | 7/8" |
| E08MJ12RA45S | 3/4" | 1 1/16" |
| E10MJ08RA45S | 7/8" | 3/4" |
| E10MJ10RA45S | 7/8" | 7/8" |
| E12MJ10RA45S | 1 1/16" | 7/8" |
| E12MJ12RA45S | 1 1/16" | 1 1/16" |
| E12MJ16RA45S | 1 1/16" | 1 5/16" |
| E16MJ12RA45S | 1 5/16" | 1 1/16" |
| E16MJ16RA45S | 1 5/16" | 1 5/16" |
| E20MJ20RA45S | 1 5/8" | 1 5/8" |

ORFS X ORFS F/M 45°

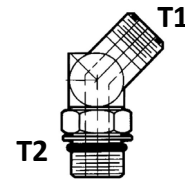
ELBOW



| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS |
|--------------|-------------------|-------------------|
| E04OF04OM45S | 9/16" | 9/16" |
| E06OF06OM45S | 11/16" | 11/16" |
| E08OF08OM45S | 13/16" | 13/16" |
| E10OF10OM45S | 1" | 1" |
| E12OF12OM45S | 1 3/16" | 1 3/16" |
| E16OF16OM45S | 1 7/16" | 1 7/16" |

ORFS X UNO M/M 45°

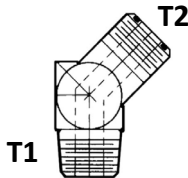
ELBOW



| PART NUMBER | THREAD T1 ORFS | THREAD T2 UNO |
|--------------|-------------------|------------------|
| E04OM04RA45S | 9/16" | 7/16" |
| E04OM06RA45S | 9/16" | 9/16" |
| E06OM04RA45S | 11/16" | 7/16" |
| E06OM06RA45S | 11/16" | 9/16" |
| E06OM08RA45S | 11/16" | 3/4" |
| E08OM06RA45S | 13/16" | 9/16" |
| E08OM08RA45S | 13/16" | 3/4" |
| E08OM10RA45S | 13/16" | 7/8" |
| E10OM08RA45S | 1" | 3/4" |
| E10OM10RA45S | 1" | 7/8" |
| E12OM10RA45S | 1 3/16" | 7/8" |
| E12OM12RA45S | 1 3/16" | 1 1/16" |
| E12OM16RA45S | 1 3/16" | 1 5/16" |
| E16OM12RA45S | 1 7/16" | 1 1/16" |
| E16OM16RA45S | 1 7/16" | 1 5/16" |
| E20OM20RA45S | 1 11/16" | 1 5/8" |

NPT X ORFS M/M 45°

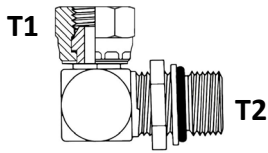
ELBOW



| PART NUMBER | THREAD T1 NPT | THREAD T2 ORFS |
|--------------|------------------|-------------------|
| E02MP04OM45S | 1/8" | 9/16" |
| E04MP04OM45S | 1/4" | 9/16" |
| E04MP06OM45S | 1/4" | 11/16" |
| E06MP06OM45S | 3/8" | 11/16" |
| E06MP08OM45S | 3/8" | 13/16" |
| E08MP08OM45S | 1/2" | 13/16" |
| E12MP12OM45S | 3/4" | 1 3/16" |
| E16MP16OM45S | 1" | 1 7/16" |

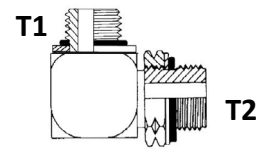
ELBOWS 90°

BSPP X BSPP F/M 90° ELBOW - SWIVEL



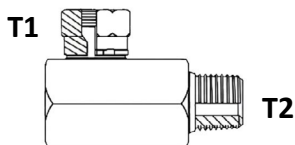
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP |
|--------------|----------------|----------------|
| E04BF04BP90S | 1/4" | 1/4" |
| E06BF06BP90S | 3/8" | 3/8" |
| E08BF08BP90S | 1/2" | 1/2" |
| E12BF12BP90S | 3/4" | 3/4" |
| E16BF16BP90S | 1" | 1" |
| E20BF20BP90S | 1 1/4" | 1 1/4" |

BSPP X BSPP M/M 90° ELBOW



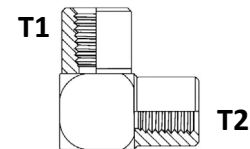
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP |
|-------------|----------------|----------------|
| E04BP90S | 1/4" | 1/4" |
| E06BP90S | 3/8" | 3/8" |
| E08BP90S | 1/2" | 1/2" |
| E12BP90S | 3/4" | 3/4" |
| E16BP90S | 1" | 1" |

BSPP X BSPT F/M 90° ELBOW - SWIVEL



| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPT |
|--------------|----------------|----------------|
| E02BF02BT90S | 1/8" | 1/8" |
| E04BF04BT90S | 1/4" | 1/4" |
| E04BF06BT90S | 1/4" | 3/8" |
| E06BF04BT90S | 3/8" | 1/4" |
| E06BF06BT90S | 3/8" | 3/8" |
| E06BF08BT90S | 3/8" | 1/2" |
| E08BF08BT90S | 1/2" | 1/2" |
| E12BF08BT90S | 3/4" | 1/2" |
| E12BF12BT90S | 3/4" | 3/4" |
| E16BF12BT90S | 1" | 3/4" |
| E16BF16BT90S | 1" | 1" |
| E20BF20BT90S | 1 1/4" | 1 1/4" |

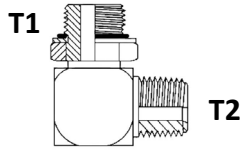
BSPP X BSPP F/F 90° ELBOW



| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP |
|-------------|----------------|----------------|
| E04BPF90S | 1/4" | 1/4" |
| E06BPF90S | 3/8" | 3/8" |
| E08BPF90S | 1/2" | 1/2" |
| E12BPF90S | 3/4" | 3/4" |
| E16BPF90S | 1" | 1" |

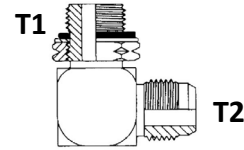
ELBOWS 90°

BSPP X BSPT M/M 90° ELBOW



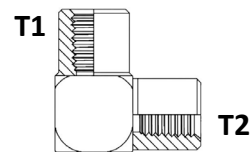
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPT |
|--------------|-------------------|-------------------|
| E04BP04BT90S | 1/4" | 1/4" |
| E06BP04BT90S | 3/8" | 1/4" |
| E06BP06BT90S | 3/8" | 3/8" |
| E06BP08BT90S | 3/8" | 1/2" |
| E08BP06BT90S | 1/2" | 3/8" |
| E08BP08BT90S | 1/2" | 1/2" |
| E12BP08BT90S | 3/4" | 1/2" |
| E12BP12BT90S | 3/4" | 3/4" |
| E16BP12BT90S | 1" | 3/4" |
| E16BP16BT90S | 1" | 1" |
| E20BP20BT90S | 1 1/4" | 1 1/4" |

BSPP X JIC M/M 90° ELBOW



| PART NUMBER | THREAD T1 BSPP | THREAD T2 JIC |
|--------------|-------------------|------------------|
| E02BP04MJ90S | 1/8" | 7/16" |
| E04BP04MJ90S | 1/4" | 7/16" |
| E04BP06MJ90S | 1/4" | 9/16" |
| E04BP08MJ90S | 1/4" | 3/4" |
| E06BP04MJ90S | 3/8" | 7/16" |
| E06BP06MJ90S | 3/8" | 9/16" |
| E06BP08MJ90S | 3/8" | 3/4" |
| E06BP10MJ90S | 3/8" | 7/8" |
| E08BP06MJ90S | 1/2" | 9/16" |
| E08BP08MJ90S | 1/2" | 3/4" |
| E08BP10MJ90S | 1/2" | 7/8" |
| E08BP12MJ90S | 1/2" | 1 1/16" |
| E12BP08MJ90S | 3/4" | 3/4" |
| E12BP10MJ90S | 3/4" | 7/8" |
| E12BP12MJ90S | 3/4" | 1 1/16" |
| E12BP16MJ90S | 3/4" | 1 5/16" |
| E16BP12MJ90S | 1" | 1 1/16" |
| E16BP20MJ90S | 1" | 1 5/8" |
| E20BP16MJ90S | 1 1/4" | 1 5/16" |
| E20BP20MJ90S | 1 1/4" | 1 5/8" |
| E24BP24MJ90S | 1 1/2" | 1 7/8" |

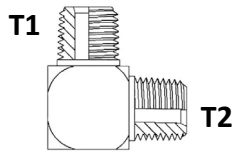
BSPT X BSPT F/F 90° ELBOW



| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| E02BS90S | 1/8" | 1/8" |
| E04BS90S | 1/4" | 1/4" |
| E06BS90S | 3/8" | 3/8" |
| E08BS90S | 1/2" | 1/2" |
| E12BS90S | 3/4" | 3/4" |
| E16BS90S | 1" | 1" |
| E20BS90S | 1 1/4" | 1 1/4" |

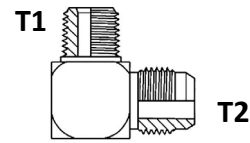
ELBOWS 90°

BSPT X BSPT M/M 90° ELBOW



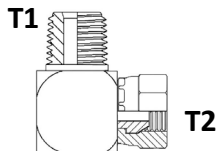
| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| E02BT90S | 1/8" | 1/8" |
| E0204BT90S | 1/8" | 1/4" |
| E04BT90S | 1/4" | 1/4" |
| E0406BT90S | 1/4" | 3/8" |
| E0408BT90S | 1/4" | 1/2" |
| E06BT90S | 3/8" | 3/8" |
| E0608BT90S | 3/8" | 1/2" |
| E08BT90S | 1/2" | 1/2" |
| E0812BT90S | 1/2" | 3/4" |
| E12BT90S | 3/4" | 3/4" |
| E1216BT90S | 3/4" | 1" |
| E16BT90S | 1" | 1" |
| E1620BT90S | 1" | 1 1/4" |
| E20BT90S | 1 1/4" | 1 1/4" |
| E24BT90S | 1 1/2" | 1 1/2" |

BSPT X JIC M/M 90° ELBOW



| PART NUMBER | THREAD T1 BSPT | THREAD T2 JIC |
|--------------|-------------------|------------------|
| E02BT04MJ90S | 1/8" | 7/16" |
| E02BT05MJ90S | 1/8" | 1/2" |
| E02BT06MJ90S | 1/8" | 9/16" |
| E04BT04MJ90S | 1/4" | 7/16" |
| E04BT05MJ90S | 1/4" | 1/2" |
| E04BT06MJ90S | 1/4" | 9/16" |
| E04BT08MJ90S | 1/4" | 3/4" |
| E06BT04MJ90S | 3/8" | 7/16" |
| E06BT05MJ90S | 3/8" | 1/2" |
| E06BT06MJ90S | 3/8" | 9/16" |
| E06BT08MJ90S | 3/8" | 3/4" |
| E06BT10MJ90S | 3/8" | 7/8" |
| E08BT04MJ90S | 1/2" | 7/16" |
| E08BT06MJ90S | 1/2" | 9/16" |
| E08BT08MJ90S | 1/2" | 3/4" |
| E08BT10MJ90S | 1/2" | 7/8" |
| E08BT12MJ90S | 1/2" | 1 1/16" |
| E12BT06MJ90S | 3/4" | 9/16" |
| E12BT08MJ90S | 3/4" | 3/4" |
| E12BT10MJ90S | 3/4" | 7/8" |
| E12BT12MJ90S | 3/4" | 1 1/16" |
| E12BT16MJ90S | 3/4" | 1 5/16" |
| E16BT12MJ90S | 1" | 1 1/16" |
| E16BT16MJ90S | 1" | 1 5/16" |
| E16BT20MJ90S | 1" | 1 5/8" |
| E20BT12MJ90S | 1 1/4" | 1 1/16" |
| E20BT16MJ90S | 1 1/4" | 1 5/16" |
| E20BT20MJ90S | 1 1/4" | 1 5/8" |
| E24BT24MJ90S | 1 1/2" | 1 7/8" |
| E32BT32MJ90S | 2" | 2 1/2" |

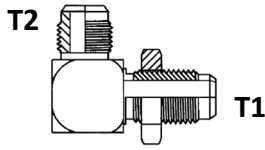
BSPT X JIC M/F 90° ELBOW - SWIVEL



| PART NUMBER | THREAD T1 BSPT | THREAD T2 JIC |
|--------------|-------------------|------------------|
| E02BT04FJ90S | 1/8" | 7/16" |
| E04BT04FJ90S | 1/4" | 7/16" |
| E04BT06FJ90S | 1/4" | 9/16" |
| E06BT06FJ90S | 3/8" | 9/16" |
| E06BT08FJ90S | 3/8" | 3/4" |
| E08BT08FJ90S | 1/2" | 3/4" |
| E08BT10FJ90S | 1/2" | 7/8" |
| E12BT12FJ90S | 3/4" | 1 1/16" |
| E16BT16FJ90S | 1" | 1 5/16" |

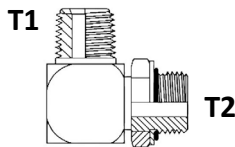
ELBOWS 90°

JIC X JIC M/M BULKHEAD 90° ELBOW



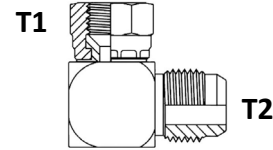
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|-------------|------------------|------------------|
| EBH04MJ90S | 7/16" | 7/16" |
| EBH05MJ90S | 1/2" | 1/2" |
| EBH06MJ90S | 9/16" | 9/16" |
| EBH08MJ90S | 3/4" | 3/4" |
| EBH10MJ90S | 7/8" | 7/8" |
| EBH12MJ90S | 1 1/16" | 1 1/16" |
| EBH16MJ90S | 1 5/16" | 1 5/16" |
| EBH24MJ90S | 1 7/8" | 1 7/8" |

BSPT X UNO M/M 90° ELBOW



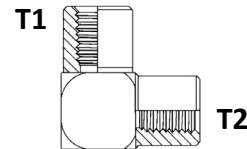
| PART NUMBER | THREAD T1 BSPT | THREAD T2 UNO |
|--------------|-------------------|------------------|
| E04BT04RA90S | 1/4" | 7/16" |
| E04BT06RA90S | 1/4" | 9/16" |
| E04BT08RA90S | 1/4" | 3/4" |
| E06BT04RA90S | 3/8" | 7/16" |
| E06BT06RA90S | 3/8" | 9/16" |
| E06BT08RA90S | 3/8" | 3/4" |
| E06BT10RA90S | 3/8" | 7/8" |
| E08BT06RA90S | 1/2" | 9/16" |
| E08BT08RA90S | 1/2" | 3/4" |
| E08BT10RA90S | 1/2" | 7/8" |
| E08BT12RA90S | 1/2" | 1 1/16" |
| E12BT10RA90S | 3/4" | 7/8" |
| E12BT12RA90S | 3/4" | 1 1/16" |
| E16BT16RA90S | 1" | 1 5/16" |

SAE X SAE F/M 90° ELBOW – SWIVEL BRASS



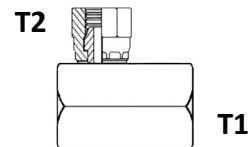
| PART NUMBER | THREAD T1 SAE | THREAD T2 SAE |
|--------------|------------------|------------------|
| E06FA06MA90S | 5/8" | 5/8" |
| E12FA12MA90S | 1 1/16" | 1 1/16" |

NPT X NPT F/F 90° ELBOW



| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|-------------|------------------|------------------|
| E02FF90S | 1/8" | 1/8" |
| E04FF90S | 1/4" | 1/4" |
| E06FF90S | 3/8" | 3/8" |
| E08FF90S | 1/2" | 1/2" |
| E12FF90S | 3/4" | 3/4" |
| E16FF90S | 1" | 1" |
| E20FF90S | 1 1/4" | 1 1/4" |

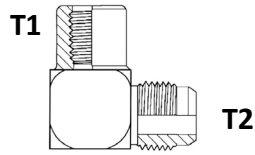
NPT X NPT F/F 90° ELBOW - SWIVEL



| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|--------------|------------------|------------------|
| E04FF04FN90S | 1/4" | 1/4" |
| E06FF06FN90S | 3/8" | 3/8" |
| E08FF08FN90S | 1/2" | 1/2" |
| E12FF12FN90S | 3/4" | 3/4" |
| E16FF16FN90S | 1" | 1" |

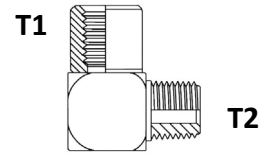
ELBOWS 90°

NPT X SAE F/M 90° ELBOW - BRASS



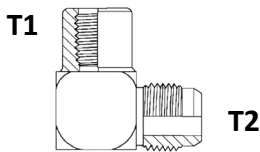
| PART NUMBER | THREAD T1 NPT | THREAD T2 SAE |
|--------------|------------------|------------------|
| E02FF04MA90S | 1/8" | 7/16" |
| E04FF05MA90S | 1/4" | 1/2" |
| E04FF06MA90S | 1/4" | 5/8" |
| E06FF06MA90S | 3/8" | 5/8" |
| E06FF08MA90S | 3/8" | 3/4" |
| E08FF08MA90S | 1/2" | 3/4" |
| E08FF10MA90S | 1/2" | 7/8" |
| E12FF12MA90S | 3/4" | 1 1/16" |

NPT X NPT F/M 90° ELBOW



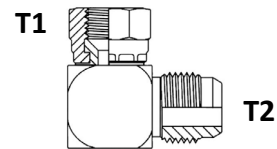
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|--------------|------------------|------------------|
| E02FF02MP90S | 1/8" | 1/8" |
| E02FF04MP90S | 1/8" | 1/4" |
| E04FF02MP90S | 1/4" | 1/8" |
| E04FF04MP90S | 1/4" | 1/4" |
| E06FF04MP90S | 3/8" | 1/4" |
| E06FF06MP90S | 3/8" | 3/8" |
| E08FF06MP90S | 1/2" | 3/8" |
| E08FF08MP90S | 1/2" | 1/2" |
| E08FF12MP90S | 1/2" | 3/4" |
| E12FF12MP90S | 3/4" | 3/4" |
| E16FF16MP90S | 1" | 1" |
| E20FF20MP90S | 1 1/4" | 1 1/4" |
| E24FF24MP90S | 1 1/2" | 1 1/2" |
| E32FF32MP90S | 2" | 2" |

NPT X JIC F/M 90° ELBOW



| PART NUMBER | THREAD T1 NPT | THREAD T2 JIC |
|--------------|------------------|------------------|
| E02FF04MJ90S | 1/8" | 7/16" |
| E02FF05MJ90S | 1/8" | 1/2" |
| E04FF04MJ90S | 1/4" | 7/16" |
| E04FF05MJ90S | 1/4" | 1/2" |
| E04FF06MJ90S | 1/4" | 9/16" |
| E04FF08MJ90S | 1/4" | 3/4" |
| E06FF06MJ90S | 3/8" | 9/16" |
| E06FF08MJ90S | 3/8" | 3/4" |
| E08FF06MJ90S | 1/2" | 9/16" |
| E08FF08MJ90S | 1/2" | 3/4" |
| E08FF10MJ90S | 1/2" | 7/8" |
| E12FF12MJ90S | 3/4" | 1 1/16" |
| E16FF16MJ90S | 1" | 1 5/16" |
| E20FF20MJ90S | 1 1/4" | 1 5/8" |

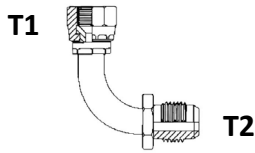
JIC X JIC F/M 90° ELBOW - SWIVEL



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|--------------|------------------|------------------|
| E04FJ04MJ90S | 7/16" | 7/16" |
| E04FJ06MJ90S | 7/16" | 9/16" |
| E05FJ05MJ90S | 1/2" | 1/2" |
| E06FJ06MJ90S | 9/16" | 9/16" |
| E08FJ08MJ90S | 3/4" | 3/4" |
| E08FJ10MJ90S | 3/4" | 7/8" |
| E08FJ12MJ90S | 3/4" | 1 1/16" |
| E10FJ08MJ90S | 7/8" | 3/4" |
| E10FJ10MJ90S | 7/8" | 7/8" |
| E12FJ10MJ90S | 1 1/16" | 7/8" |
| E12FJ12MJ90S | 1 1/16" | 1 1/16" |
| E16FJ16MJ90S | 1 5/16" | 1 5/16" |
| E20FJ20MJ90S | 1 5/8" | 1 5/8" |
| E24FJ24MJ90S | 1 7/8" | 1 7/8" |
| E32FJ32MJ90S | 2 1/2" | 2 1/2" |

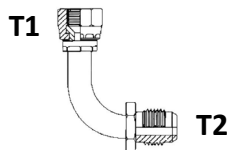
ELBOWS 90°

JIC X JIC F/M 90° TUBE ELBOW - SWIVEL



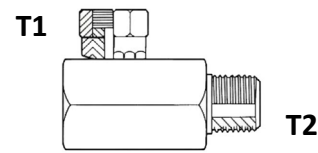
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|--------------|------------------|------------------|
| E04FJ04MJ90T | 7/16" | 7/16" |
| E05FJ05MJ90T | 1/2" | 1/2" |
| E06FJ06MJ90T | 9/16" | 9/16" |
| E08FJ08MJ90T | 3/4" | 3/4" |
| E10FJ10MJ90T | 7/8" | 7/8" |
| E12FJ12MJ90T | 1 1/16" | 1 1/16" |
| E16FJ16MJ90T | 1 5/16" | 1 5/16" |
| E20FJ20MJ90T | 1 5/8" | 1 5/8" |
| E24FJ24MJ90T | 1 7/8" | 1 7/8" |

JIC X JIC F/M 90° LONG TUBE ELBOW - SWIVEL



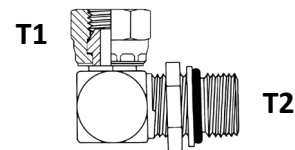
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|--------------|------------------|------------------|
| E04FJ04MJ90L | 7/16" | 7/16" |
| E06FJ06MJ90L | 9/16" | 9/16" |
| E08FJ08MJ90L | 3/4" | 3/4" |
| E10FJ10MJ90L | 7/8" | 7/8" |
| E12FJ12MJ90L | 1 1/16" | 1 1/16" |
| E16FJ16MJ90L | 1 5/16" | 1 5/16" |
| E20FJ20MJ90L | 1 5/8" | 1 5/8" |

NPT X NPT F/M 90° ELBOW - SWIVEL



| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|--------------|------------------|------------------|
| E02FN02MP90S | 1/8" | 1/8" |
| E04FN04MP90S | 1/4" | 1/4" |
| E04FN08MP90S | 1/4" | 1/2" |
| E06FN06MP90S | 3/8" | 3/8" |
| E06FN08MP90S | 3/8" | 1/2" |
| E08FN08MP90S | 1/2" | 1/2" |
| E12FN12MP90S | 3/4" | 3/4" |
| E16FN12MP90S | 1" | 3/4" |
| E16FN16MP90S | 1" | 1" |
| E24FN24MP90S | 1 1/2" | 1 1/2" |

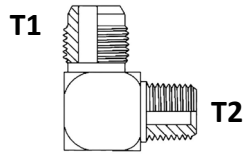
NPT X UNO F/M 90° ELBOW - SWIVEL



| PART NUMBER | THREAD T1 NPT | THREAD T2 UNO |
|--------------|------------------|------------------|
| E04FN04RA90S | 1/4" | 7/16" |
| E04FN06RA90S | 1/4" | 9/16" |
| E06FN06RA90S | 3/8" | 9/16" |
| E06FN08RA90S | 3/8" | 3/4" |
| E06FN10RA90S | 3/8" | 7/8" |
| E08FN08RA90S | 1/2" | 3/4" |
| E08FN10RA90S | 1/2" | 7/8" |
| E08FN12RA90S | 1/2" | 1 1/16" |
| E12FN10RA90S | 3/4" | 7/8" |
| E12FN12RA90S | 3/4" | 1 1/16" |
| E12FN16RA90S | 3/4" | 1 5/16" |
| E16FN16RA90S | 1" | 1 5/16" |

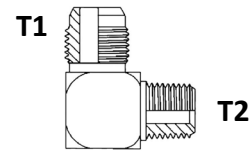
ELBOWS 90°

SAE X NPT M/M 90° ELBOW - BRASS



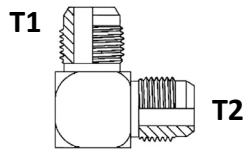
| PART NUMBER | THREAD T1 SAE | THREAD T2 NPT |
|----------------|------------------|------------------|
| E04MA02MP90S-B | 7/16" | 1/8" |
| E04MA04MP90S-B | 7/16" | 1/4" |
| E05MA04MP90S-B | 1/2" | 1/4" |
| E06MA02MP90S-B | 5/8" | 1/8" |
| E06MA04MP90S-B | 5/8" | 1/4" |
| E06MA06MP90S-B | 5/8" | 3/8" |
| E06MA08MP90S-B | 5/8" | 1/2" |

JIC X NPT M/M 90° ELBOW



| PART NUMBER | THREAD T1 JIC | THREAD T2 NPT |
|--------------|------------------|------------------|
| E02MJ02MP90S | 5/16" | 1/8" |
| E03MJ02MP90S | 3/8" | 1/8" |
| E04MJ02MP90S | 7/16" | 1/8" |
| E04MJ04MP90S | 7/16" | 1/4" |
| E04MJ06MP90S | 7/16" | 3/8" |
| E04MJ08MP90S | 7/16" | 1/2" |
| E05MJ02MP90S | 1/2" | 1/8" |
| E05MJ04MP90S | 1/2" | 1/4" |
| E05MJ06MP90S | 1/2" | 3/8" |
| E06MJ02MP90S | 9/16" | 1/8" |
| E06MJ04MP90S | 9/16" | 1/4" |
| E06MJ06MP90S | 9/16" | 3/8" |
| E06MJ08MP90S | 9/16" | 1/2" |
| E08MJ04MP90S | 3/4" | 1/4" |
| E08MJ06MP90S | 3/4" | 3/8" |
| E08MJ08MP90S | 3/4" | 1/2" |
| E08MJ12MP90S | 3/4" | 3/4" |
| E10MJ06MP90S | 7/8" | 3/8" |
| E10MJ08MP90S | 7/8" | 1/2" |
| E10MJ12MP90S | 7/8" | 3/4" |
| E12MJ08MP90S | 1 1/16" | 1/2" |
| E12MJ12MP90S | 1 1/16" | 3/4" |
| E12MJ16MP90S | 1 1/16" | 1" |
| E14MJ12MP90S | 1 3/16" | 3/4" |
| E16MJ12MP90S | 1 5/16" | 3/4" |
| E16MJ16MP90S | 1 5/16" | 1" |
| E16MJ20MP90S | 1 5/16" | 1 1/4" |
| E20MJ16MP90S | 1 5/8" | 1" |
| E20MJ20MP90S | 1 5/8" | 1 1/4" |
| E24MJ24MP90S | 1 7/8" | 1 1/2" |
| E32MJ32MP90S | 2" | 2" |

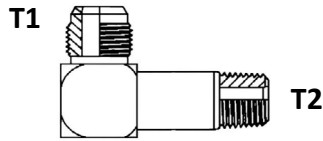
JIC X JIC M/M 90° ELBOW



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|-------------|------------------|------------------|
| E04MJ90S | 7/16" | 7/16" |
| E05MJ90S | 1/2" | 1/2" |
| E06MJ90S | 9/16" | 9/16" |
| E08MJ90S | 3/4" | 3/4" |
| E10MJ90S | 7/8" | 7/8" |
| E12MJ90S | 1 1/16" | 1 1/16" |
| E1216MJ90S | 1 1/16" | 1 5/16" |
| E16MJ90S | 1 5/16" | 1 5/16" |
| E20MJ90S | 1 5/8" | 1 5/8" |
| E24MJ90S | 1 7/8" | 1 7/8" |

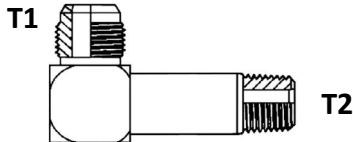
ELBOWS 90°

JIC X NPT M/M 90° LONG ELBOW



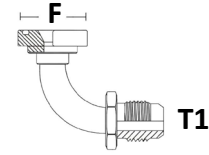
| PART NUMBER | THREAD T1 JIC | THREAD T2 NPT |
|--------------|---------------|---------------|
| E04MJ02MP90L | 7/16" | 1/8" |
| E04MJ04MP90L | 7/16" | 1/4" |
| E05MJ02MP90L | 1/2" | 1/8" |
| E06MJ04MP90L | 9/16" | 1/4" |

JIC X NPT M/M 90° EXTRA LONG ELBOW



| PART NUMBER | THREAD T1 JIC | THREAD T2 NPT |
|---------------|---------------|---------------|
| E04MJ02MP90EL | 7/16" | 1/8" |
| E04MJ04MP90EL | 7/16" | 1/4" |
| E06MJ04MP90EL | 9/16" | 1/4" |
| E06MJ06MP90EL | 9/16" | 3/8" |
| E08MJ06MP90EL | 3/4" | 3/8" |
| E08MJ08MP90EL | 3/4" | 1/2" |

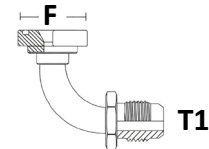
FLANGE CODE 61 X JIC 90° ELBOW



| PART NUMBER | NOM. FLANGE SIZE | THREAD T1 JIC | FLANGE OD |
|--------------|------------------|---------------|-----------|
| E08FL08MJ90T | 1/2" | 3/4" | 1 3/16" |
| E12FL12MJ90T | 3/4" | 1 1/16" | 1 1/2" |
| E16FL12MJ90T | 1" | 1 1/16" | 1 3/4" |
| E16FL16MJ90T | 1" | 1 5/16" | 1 3/4" |
| E20FL16MJ90T | 1 1/4" | 1 5/16" | 2" |
| E20FL20MJ90T | 1 1/4" | 1 5/8" | 2" |
| E24FL16MJ90T | 1 1/2" | 1 5/16" | 2 3/8" |
| E24FL20MJ90T | 1 1/2" | 1 5/8" | 2 3/8" |
| E24FL24MJ90T | 1 1/2" | 1 7/8" | 2 3/8" |
| E32FL32MJ90T | 2" | 2 1/2" | 2 13/16" |

COMPACTS AVAILABLE ON REQUEST

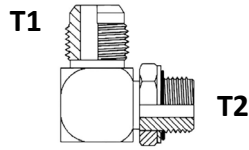
FLANGE CODE 62 X JIC 90° ELBOW



| PART NUMBER | NOM. FLANGE SIZE | THREAD T1 JIC | FLANGE OD |
|--------------|------------------|---------------|-----------|
| E12FH12MJ90T | 3/4" | 1 1/16" | 1 5/8" |
| E12FH16MJ90T | 3/4" | 1 5/16" | 1 5/8" |
| E16FH12MJ90T | 1" | 1 1/16" | 1 7/8" |
| E16FH16MJ90T | 1" | 1 5/16" | 1 7/8" |
| E20FH16MJ90T | 1 1/4" | 1 5/16" | 2 1/8" |
| E20FH20MJ90T | 1 1/4" | 1 5/8" | 2 1/8" |
| E24FH20MJ90T | 1 1/2" | 1 5/8" | 2 1/2" |
| E24FH24MJ90T | 1 1/2" | 1 7/8" | 2 1/2" |

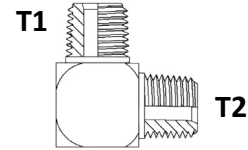
ELBOWS 90°

JIC X UNO M/M 90° ELBOW



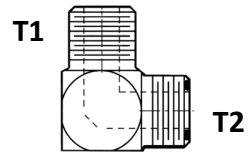
| PART NUMBER | THREAD T1 JIC | THREAD T2 UNO |
|--------------|------------------|------------------|
| E02MJ02RA90S | 5/16" | 5/16" |
| E04MJ04RA90S | 7/16" | 7/16" |
| E04MJ05RA90S | 7/16" | 1/2" |
| E04MJ06RA90S | 7/16" | 9/16" |
| E05MJ05RA90S | 1/2" | 1/2" |
| E05MJ06RA90S | 1/2" | 9/16" |
| E05MJ08RA90S | 1/2" | 3/4" |
| E06MJ04RA90S | 9/16" | 7/16" |
| E06MJ05RA90S | 9/16" | 1/2" |
| E06MJ06RA90S | 9/16" | 9/16" |
| E06MJ08RA90S | 9/16" | 3/4" |
| E06MJ10RA90S | 9/16" | 7/8" |
| E08MJ04RA90S | 3/4" | 7/16" |
| E08MJ06RA90S | 3/4" | 9/16" |
| E08MJ08RA90S | 3/4" | 3/4" |
| E08MJ10RA90S | 3/4" | 7/8" |
| E08MJ12RA90S | 3/4" | 1 1/16" |
| E10MJ06RA90S | 7/8" | 9/16" |
| E10MJ08RA90S | 7/8" | 3/4" |
| E10MJ10RA90S | 7/8" | 7/8" |
| E10MJ12RA90S | 7/8" | 1 1/16" |
| E12MJ08RA90S | 1 1/16" | 3/4" |
| E12MJ10RA90S | 1 1/16" | 7/8" |
| E12MJ12RA90S | 1 1/16" | 1 1/16" |
| E12MJ16RA90S | 1 1/16" | 1 5/16" |
| E14MJ14RA90S | 1 3/16" | 1 3/16" |
| E16MJ12RA90S | 1 5/16" | 1 1/16" |
| E16MJ16RA90S | 1 5/16" | 1 5/16" |
| E16MJ20RA90S | 1 5/16" | 1 5/8" |
| E20MJ16RA90S | 1 5/8" | 1 5/16" |
| E20MJ20RA90S | 1 5/8" | 1 5/8" |
| E24MJ24RA90S | 1 7/8" | 1 7/8" |

NPT X NPT M/M 90° ELBOW



| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|-------------|------------------|------------------|
| E02MP90S | 1/8" | 1/8" |
| E04MP90S | 1/4" | 1/4" |
| E0406MP90S | 1/4" | 3/8" |
| E06MP90S | 3/8" | 3/8" |
| E0608MP90S | 3/8" | 1/2" |
| E08MP90S | 1/2" | 1/2" |
| E12MP90S | 3/4" | 3/4" |
| E16MP90S | 1" | 1" |
| E20MP90S | 1 1/4" | 1 1/4" |
| E24MP90S | 1 1/2" | 1 1/2" |
| E32MP90S | 2" | 2" |

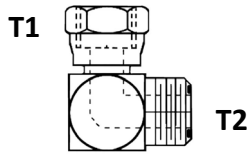
NPT X ORFS M/M 90° ELBOW



| PART NUMBER | THREAD T1 NPT | THREAD T2 ORFS |
|--------------|------------------|-------------------|
| E02MP04OM90S | 1/8" | 9/16" |
| E04MP04OM90S | 1/4" | 9/16" |
| E04MP06OM90S | 1/4" | 11/16" |
| E06MP06OM90S | 3/8" | 11/16" |
| E06MP08OM90S | 3/8" | 13/16" |
| E08MP06OM90S | 1/2" | 11/16" |
| E08MP08OM90S | 1/2" | 13/16" |
| E08MP10OM90S | 1/2" | 1" |
| E08MP12OM90S | 1/2" | 1 3/16" |
| E12MP12OM90S | 3/4" | 1 3/16" |
| E16MP16OM90S | 1" | 1 7/16" |
| E20MP20OM90S | 1 1/4" | 1 11/16" |

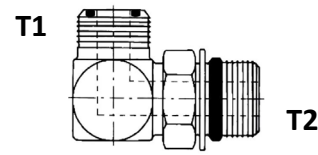
ELBOWS 90°

ORFS X ORFS F/M 90° ELBOW - SWIVEL



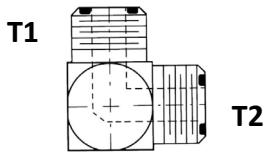
| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS |
|--------------|----------------|----------------|
| E04OF04OM90S | 9/16" | 9/16" |
| E06OF06OM90S | 11/16" | 11/16" |
| E08OF08OM90S | 13/16" | 13/16" |
| E10OF10OM90S | 1" | 1" |
| E12OF12OM90S | 1 3/16" | 1 3/16" |
| E16OF16OM90S | 1 7/16" | 1 7/16" |
| E20OF20OM90S | 1 11/16" | 1 11/16" |
| E24OF24OM90S | 2" | 2" |

ORFS X UNO M/M 90° ELBOW



| PART NUMBER | THREAD T1 ORFS | THREAD T2 UNO |
|--------------|----------------|---------------|
| E04OM04RA90S | 9/16" | 7/16" |
| E06OM06RA90S | 11/16" | 9/16" |
| E08OM06RA90S | 13/16" | 9/16" |
| E08OM08RA90S | 13/16" | 3/4" |
| E08OM10RA90S | 13/16" | 7/8" |
| E08OM12RA90S | 13/16" | 1 1/16" |
| E10OM12RA90S | 1" | 1 1/16" |
| E12OM08RA90S | 1 3/16" | 3/4" |
| E12OM12RA90S | 1 3/16" | 1 1/16" |
| E16OM12RA90S | 1 7/16" | 1 1/16" |
| E16OM16RA90S | 1 7/16" | 1 5/16" |

ORFS X ORFS M/M 90° ELBOW

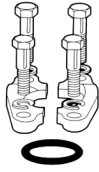


| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS |
|-------------|----------------|----------------|
| E04OM90S | 9/16" | 9/16" |
| E06OM90S | 11/16" | 11/16" |
| E08OM90S | 13/16" | 13/16" |
| E10OM90S | 1" | 1" |
| E12OM90S | 1 3/16" | 1 3/16" |
| E16OM90S | 1 7/16" | 1 7/16" |
| E20OM90S | 1 11/16" | 1 11/16" |

FLANGE KITS & O'RINGS

FLANGE KITS CODE 61

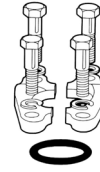
IMPERIAL



| PART NUMBER | NOM FLANGE SIZE | FLANGE OD |
|--|-----------------|-----------|
| FL08I | 1/2" | 1 3/16" |
| FL12I | 3/4" | 1 1/2" |
| FL16I | 1" | 1 3/4" |
| FL20I | 1 1/4" | 2" |
| FL24I | 1 1/2" | 2 3/8" |
| FL32I | 2" | 2 13/16" |
| SUPPLIED WITH UNC BOLTS, O RING & SPRING WASHERS | | |

FLANGE KITS CODE 62

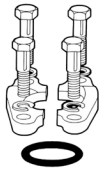
IMPERIAL



| PART NUMBER | NOM FLANGE SIZE | FLANGE OD |
|--|-----------------|-----------|
| FH12I | 3/4" | 1 5/8" |
| FH16I | 1" | 1 7/8" |
| FH20I | 1 1/4" | 2 1/8" |
| FH24I | 1 1/2" | 2 1/2" |
| FH32I | 2" | 3 1/8" |
| SUPPLIED WITH UNC BOLTS, O RING & SPRING WASHERS | | |

FLANGE KITS CODE 61

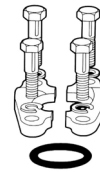
METRIC



| PART NUMBER | NOM FLANGE SIZE | FLANGE OD |
|---|-----------------|-----------|
| FL08M | 1/2" | 1 3/16" |
| FL12M | 3/4" | 1 1/2" |
| FL16M | 1" | 1 3/4" |
| FL20M | 1 1/4" | 2" |
| FL24M | 1 1/2" | 2 3/8" |
| FL32M | 2" | 2 13/16" |
| SUPPLIED WITH METRIC BOLTS, O RING & SPRING WASHERS | | |

FLANGE KITS CODE 62

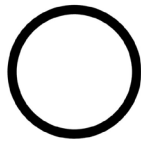
METRIC



| PART NUMBER | NOM FLANGE SIZE | FLANGE OD |
|---|-----------------|-----------|
| FH12M | 3/4" | 1 5/8" |
| FH16M | 1" | 1 7/8" |
| FH20M | 1 1/4" | 2 1/8" |
| FH24M | 1 1/2" | 2 1/2" |
| FH32M | 2" | 3 1/8" |
| SUPPLIED WITH METRIC BOLTS, O RING & SPRING WASHERS | | |

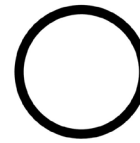
FLANGE KITS & O'RINGS

O RING TO SUIT SAE FLANGE HEAD



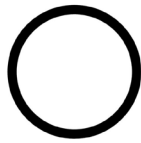
| PART NUMBER | SUIT NOM FLANGE |
|-------------|-----------------|
| OR08FL/FH | 1/2" |
| OR10FL/FH | 5/8" |
| OR12FL/FH | 3/4" |
| OR16FL/FH | 1" |
| OR20FL/FH | 1 1/4" |
| OR24FL/FH | 1 1/2" |
| OR32FL/FH | 2" |
| OR40FL/FH | 2 1/2" |
| OR48FL/FH | 3" |

O RING TO SUIT UNO THREAD



| PART NUMBER | SUIT UNO THREAD |
|-------------|-----------------|
| OR04RA | 7/16" |
| OR05RA | 1/2" |
| OR06RA | 9/16" |
| OR08RA | 3/4" |
| OR10RA | 7/8" |
| OR12RA | 1 1/16" |
| OR14RA | 1 3/16" |
| OR16RA | 1 5/16" |
| OR20RA | 1 5/8" |

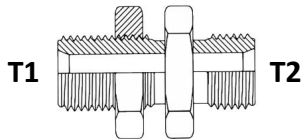
O RING TO SUIT ORFS THREAD



| PART NUMBER | SUIT ORFS THREAD |
|-------------|------------------|
| OR04OM | 9/16" |
| OR06OM | 11/16" |
| OR08OM | 13/16" |
| OR10OM | 1" |
| OR12OM | 1 3/16" |
| OR16OM | 1 7/16" |
| OR20OM | 1 11/16" |
| OR24OM | 2" |

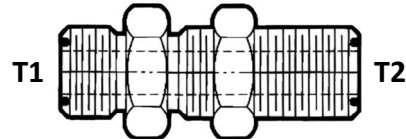
NIPPLES

BSPP X BSPP M/M BULKHEAD NIPPLE



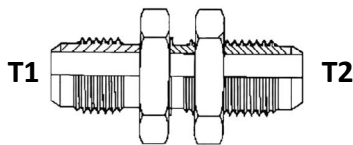
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP |
|-------------|-------------------|-------------------|
| NBH02BP | 1/8" | 1/8" |
| NBH04BP | 1/4" | 1/4" |
| NBH06BP | 3/8" | 3/8" |
| NBH08BP | 1/2" | 1/2" |
| NBH12BP | 3/4" | 3/4" |
| NBH16BP | 1" | 1" |
| NBH20BP | 1 1/4" | 1 1/4" |

ORFS X ORFS M/M BULKHEAD NIPPLE



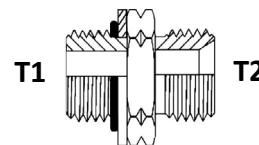
| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS |
|-------------|-------------------|-------------------|
| NBH04OM | 9/16" | 9/16" |
| NBH06OM | 11/16" | 11/16" |
| NBH08OM | 13/16" | 13/16" |
| NBH10OM | 1" | 1" |
| NBH12OM | 1 3/16" | 1 3/16" |
| NBH16OM | 1 7/16" | 1 7/16" |
| NBH20OM | 1 11/16" | 1 11/16" |

JIC X JIC M/M BULKHEAD NIPPLE



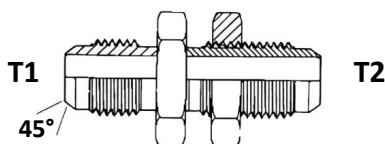
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|-------------|------------------|------------------|
| NBH04MJ | 7/16" | 7/16" |
| NBH05MJ | 1/2" | 1/2" |
| NBH06MJ | 9/16" | 9/16" |
| NBH08MJ | 3/4" | 3/4" |
| NBH10MJ | 7/8" | 7/8" |
| NBH12MJ | 1 1/16" | 1 1/16" |
| NBH16MJ | 1 5/16" | 1 5/16" |
| NBH20MJ | 1 5/8" | 1 5/8" |

BSPP X BSPP M/M NIPPLE



| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP |
|-------------|-------------------|-------------------|
| N02BP | 1/8" | 1/8" |
| N0204BP | 1/8" | 1/4" |
| N04BP | 1/4" | 1/4" |
| N0406BP | 1/4" | 3/8" |
| N0408BP | 1/4" | 1/2" |
| N06BP | 3/8" | 3/8" |
| N0608BP | 3/8" | 1/2" |
| N0612BP | 3/8" | 3/4" |
| N08BP | 1/2" | 1/2" |
| N0812BP | 1/2" | 3/4" |
| N0816BP | 1/2" | 1" |
| N12BP | 3/4" | 3/4" |
| N1216BP | 3/4" | 1" |
| N1220BP | 3/4" | 1 1/4" |
| N16BP | 1" | 1" |
| N1620BP | 1" | 1 1/4" |
| N1624BP | 1" | 1 1/2" |
| N20BP | 1 1/4" | 1 1/4" |
| N2024BP | 1 1/4" | 1 1/2" |
| N24BP | 1 1/2" | 1 1/2" |
| N32BP | 2" | 2" |
| N40BP | 2 1/2" | 2 1/2" |

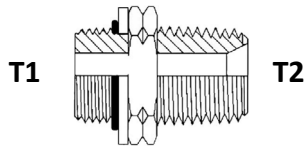
SAE X SAE M/M BULKHEAD NIPPLE



| PART NUMBER | THREAD T1 SAE | THREAD T2 SAE |
|-------------|------------------|------------------|
| NBH06MA | 5/8" | 5/8" |

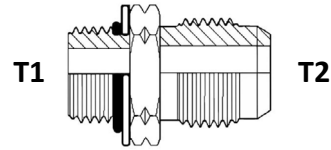
NIPPLES

BSPP X BSPT M/M NIPPLE



| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| N04BP02BT | 1/4" | 1/8" |
| N04BP04BT | 1/4" | 1/4" |
| N04BP06BT | 1/4" | 3/8" |
| N04BP08BT | 1/4" | 1/2" |
| N06BP04BT | 3/8" | 1/4" |
| N06BP06BT | 3/8" | 3/8" |
| N06BP08BT | 3/8" | 1/2" |
| N08BP06BT | 1/2" | 3/8" |
| N08BP08BT | 1/2" | 1/2" |
| N08BP12BT | 1/2" | 3/4" |
| N12BP08BT | 3/4" | 1/2" |
| N12BP12BT | 3/4" | 3/4" |
| N12BP16BT | 3/4" | 1" |
| N16BP12BT | 1" | 3/4" |
| N16BP16BT | 1" | 1" |
| N16BP20BT | 1" | 1 1/4" |
| N20BP16BT | 1 1/4" | 1" |
| N20BP20BT | 1 1/4" | 1 1/4" |
| N24BP20BT | 1 1/2" | 1 1/4" |
| N24BP24BT | 1 1/2" | 1 1/2" |
| N32BP32BT | 2" | 2" |
| N40BP32BT | 2 1/2" | 2" |
| N40BP40BT | 2 1/2" | 2 1/2" |

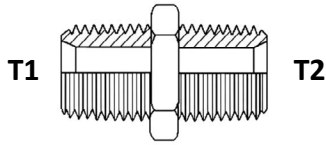
BSPP X JIC M/M NIPPLE



| PART NUMBER | THREAD T1 BSPP | THREAD T2 JIC |
|-------------|-------------------|------------------|
| N02BP04MJ | 1/8" | 7/16" |
| N02BP06MJ | 1/8" | 9/16" |
| N04BP04MJ | 1/4" | 7/16" |
| N04BP05MJ | 1/4" | 1/2" |
| N04BP06MJ | 1/4" | 9/16" |
| N04BP08MJ | 1/4" | 3/4" |
| N06BP06MJ | 3/8" | 9/16" |
| N06BP04MJ | 3/8" | 7/16" |
| N06BP08MJ | 3/8" | 3/4" |
| N06BP10MJ | 3/8" | 7/8" |
| N06BP12MJ | 3/8" | 1 1/16" |
| N08BP04MJ | 1/2" | 7/16" |
| N08BP06MJ | 1/2" | 9/16" |
| N08BP08MJ | 1/2" | 3/4" |
| N08BP10MJ | 1/2" | 7/8" |
| N08BP12MJ | 1/2" | 1 1/16" |
| N08BP16MJ | 1/2" | 1 5/16" |
| N10BP10MJ | 5/8" | 7/8" |
| N12BP06MJ | 3/4" | 9/16" |
| N12BP04MJ | 3/4" | 7/16" |
| N12BP08MJ | 3/4" | 3/4" |
| N12BP10MJ | 3/4" | 7/8" |
| N12BP12MJ | 3/4" | 1 1/16" |
| N12BP16MJ | 3/4" | 1 5/16" |
| N16BP08MJ | 1" | 3/4" |
| N16BP10MJ | 1" | 7/8" |
| N16BP12MJ | 1" | 1 1/16" |
| N16BP16MJ | 1" | 1 5/16" |
| N16BP20MJ | 1" | 1 5/8" |
| N20BP12MJ | 1 1/4" | 1 1/16" |
| N20BP16MJ | 1 1/4" | 1 5/16" |
| N20BP20MJ | 1 1/4" | 1 5/8" |
| N20BP24MJ | 1 1/4" | 1 7/8" |
| N24BP16MJ | 1 1/2" | 1 5/16" |
| N24BP20MJ | 1 1/2" | 1 5/8" |
| N24BP24MJ | 1 1/2" | 1 7/8" |
| N32BP20MJ | 2" | 1 5/8" |
| N32BP24MJ | 2" | 1 7/8" |
| N32BP32MJ | 2" | 2 1/2" |

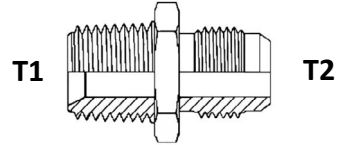
NIPPLES

BSPT X BSPT M/M NIPPLE



| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| N02BT | 1/8" | 1/8" |
| N0204BT | 1/8" | 1/4" |
| N0206BT | 1/8" | 3/8" |
| N0208BT | 1/8" | 1/2" |
| N04BT | 1/4" | 1/4" |
| N0406BT | 1/4" | 3/8" |
| N0408BT | 1/4" | 1/2" |
| N06BT | 3/8" | 3/8" |
| N0608BT | 3/8" | 1/2" |
| N0612BT | 3/8" | 3/4" |
| N0616BT | 3/8" | 1" |
| N08BT | 1/2" | 1/2" |
| N0810BT | 1/2" | 5/8" |
| N0812BT | 1/2" | 3/4" |
| N0816BT | 1/2" | 1" |
| N10BT | 5/8" | 5/8" |
| N1012BT | 5/8" | 3/4" |
| N12BT | 3/4" | 3/4" |
| N1216BT | 3/4" | 1" |
| N1220BT | 3/4" | 1 1/4" |
| N16BT | 1" | 1" |
| N1620BT | 1" | 1 1/4" |
| N1624BT | 1" | 1 1/2" |
| N20BT | 1 1/4" | 1 1/4" |
| N2024BT | 1 1/4" | 1 1/2" |
| N2032BT | 1 1/4" | 2" |
| N24BT | 1 1/2" | 1 1/2" |
| N2432BT | 1 1/2" | 2" |
| N32BT | 2" | 2" |

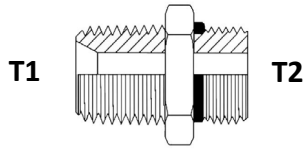
BSPT X JIC M/M NIPPLE



| PART NUMBER | THREAD T1 BSPT | THREAD T2 JIC |
|-------------|-------------------|------------------|
| N02BT04MJ | 1/8" | 7/16" |
| N02BT05MJ | 1/8" | 1/2" |
| N02BT06MJ | 1/8" | 9/16" |
| N04BT04MJ | 1/4" | 7/16" |
| N04BT05MJ | 1/4" | 1/2" |
| N04BT06MJ | 1/4" | 9/16" |
| N04BT08MJ | 1/4" | 3/4" |
| N06BT04MJ | 3/8" | 7/16" |
| N06BT05MJ | 3/8" | 1/2" |
| N06BT06MJ | 3/8" | 9/16" |
| N06BT08MJ | 3/8" | 3/4" |
| N06BT10MJ | 3/8" | 7/8" |
| N06BT12MJ | 3/8" | 1 1/16" |
| N08BT04MJ | 1/2" | 7/16" |
| N08BT06MJ | 1/2" | 9/16" |
| N08BT08MJ | 1/2" | 3/4" |
| N08BT10MJ | 1/2" | 7/8" |
| N08BT12MJ | 1/2" | 1 1/16" |
| N12BT06MJ | 3/4" | 9/16" |
| N12BT08MJ | 3/4" | 3/4" |
| N12BT10MJ | 3/4" | 7/8" |
| N12BT12MJ | 3/4" | 1 1/16" |
| N12BT14MJ | 3/4" | 1 3/16" |
| N12BT16MJ | 3/4" | 1 5/16" |
| N16BT10MJ | 1" | 7/8" |
| N16BT12MJ | 1" | 1 1/16" |
| N16BT16MJ | 1" | 1 5/16" |
| N16BT20MJ | 1" | 1 5/8" |
| N20BT12MJ | 1 1/4" | 1 1/16" |
| N20BT16MJ | 1 1/4" | 1 5/16" |
| N20BT20MJ | 1 1/4" | 1 5/8" |
| N20BT24MJ | 1 1/4" | 1 7/8" |
| N24BT20MJ | 1 1/2" | 1 5/8" |
| N24BT24MJ | 1 1/2" | 1 7/8" |
| N32BT32MJ | 2" | 2 1/2" |

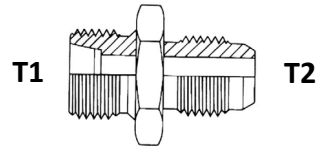
NIPPLES

BSPT X UNO M/M NIPPLE



| PART NUMBER | THREAD T1 BSPT | THREAD T2 UNO |
|-------------|-------------------|------------------|
| N04BT04RA | 1/4" | 7/16" |
| N04BT06RA | 1/4" | 9/16" |
| N04BT08RA | 1/4" | 3/4" |
| N06BT06RA | 3/8" | 9/16" |
| N06BT08RA | 3/8" | 3/4" |
| N06BT10RA | 3/8" | 7/8" |
| N08BT06RA | 1/2" | 9/16" |
| N08BT08RA | 1/2" | 3/4" |
| N08BT10RA | 1/2" | 7/8" |
| N08BT12RA | 1/2" | 1 1/16" |
| N12BT08RA | 3/4" | 3/4" |
| N12BT10RA | 3/4" | 7/8" |
| N12BT12RA | 3/4" | 1 1/16" |
| N12BT16RA | 3/4" | 1 5/16" |
| N16BT12RA | 1" | 1 1/16" |
| N16BT16RA | 1" | 1 5/16" |
| N16BT20RA | 1" | 1 5/8" |
| N20BT20RA | 1 1/4" | 1 5/8" |

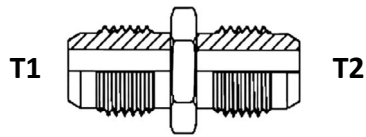
METRIC X JIC M/M NIPPLE



| PART NUMBER | THREAD T1 METRIC | THREAD T2 JIC |
|-------------|---------------------|------------------|
| N06DX04MJ | 6mm X 1.5 | 7/16" |
| N10DX04MJ | 10mm X 1.5 | 7/16" |
| N10DX06MJ | 10mm X 1.5 | 9/16" |
| N12DX04MJ | 12mm X 1.5 | 7/16" |
| N12DX06MJ | 12mm X 1.5 | 9/16" |
| N14DX06MJ | 14mm X 1.5 | 9/16" |
| N14DX08MJ | 14mm X 1.5 | 3/4" |
| N16DX06MJ | 16mm X 1.5 | 9/16" |
| N16DX08MJ | 16mm X 1.5 | 3/4" |
| N16DX10MJ | 16mm X 1.5 | 7/8" |
| N18DX06MJ | 18mm X 1.5 | 9/16" |
| N18DX08MJ | 18mm X 1.5 | 3/4" |
| N18DX10MJ | 18mm X 1.5 | 7/8" |
| N18DX12MJ | 18mm X 1.5 | 1 1/16" |
| N20DX08MJ | 20mm X 1.5 | 3/4" |
| N20DX10MJ | 20mm X 1.5 | 7/8" |
| N22DX06MJ | 22mm X 1.5 | 9/16" |
| N22DX08MJ | 22mm X 1.5 | 3/4" |
| N22DX10MJ | 22mm X 1.5 | 7/8" |
| N22DX12MJ | 22mm X 1.5 | 1 1/16" |
| N26DX12MJ | 26mm X 1.5 | 1 1/16" |
| N26DX16MJ | 26mm X 1.5 | 1 5/16" |
| N27DX12MJ | 27mm X 1.5 | 1 1/16" |
| N33DX16MJ | 33mm X 2.0 | 1 5/16" |
| N36DX20MJ | 36mm X 2.0 | 1 5/8" |

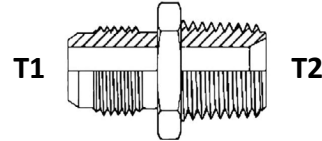
NIPPLES

JIC X JIC M/M NIPPLE



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|-------------|------------------|------------------|
| N03MJ | 3/8" | 3/8" |
| N04MJ | 7/16" | 7/16" |
| N0405MJ | 7/16" | 1/2" |
| N0406MJ | 7/16" | 9/16" |
| N0408MJ | 7/16" | 3/4" |
| N05MJ | 1/2" | 1/2" |
| N06MJ | 9/16" | 9/16" |
| N0608MJ | 9/16" | 3/4" |
| N0610MJ | 9/16" | 7/8" |
| N0612MJ | 9/16" | 1 1/16" |
| N08MJ | 3/4" | 3/4" |
| N0810MJ | 3/4" | 7/8" |
| N0812MJ | 3/4" | 1 1/16" |
| N10MJ | 7/8" | 7/8" |
| N1012MJ | 7/8" | 1 1/16" |
| N1016MJ | 7/8" | 1 5/16" |
| N12MJ | 1 1/16" | 1 1/16" |
| N1216MJ | 1 1/16" | 1 5/16" |
| N14MJ | 1 3/16" | 1 3/16" |
| N16MJ | 1 5/16" | 1 5/16" |
| N1620MJ | 1 5/16" | 1 5/8" |
| N20MJ | 1 5/8" | 1 5/8" |
| N24MJ | 1 7/8" | 1 7/8" |
| N32MJ | 2 1/2" | 2 1/2" |
| N40MJ | 3" | 3" |

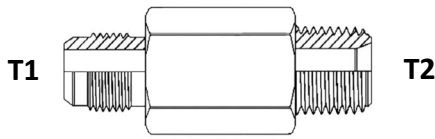
JIC X NPT M/M NIPPLE



| PART NUMBER | THREAD T1 JIC | THREAD T2 NPT |
|-------------|------------------|------------------|
| N03MJ02MP | 3/8" | 1/8" |
| N04MJ02MP | 7/16" | 1/8" |
| N04MJ04MP | 7/16" | 1/4" |
| N04MJ06MP | 7/16" | 3/8" |
| N04MJ08MP | 7/16" | 1/2" |
| N05MJ02MP | 1/2" | 1/8" |
| N05MJ04MP | 1/2" | 1/4" |
| N05MJ06MP | 1/2" | 3/8" |
| N06MJ02MP | 9/16" | 1/8" |
| N06MJ04MP | 9/16" | 1/4" |
| N06MJ06MP | 9/16" | 3/8" |
| N06MJ08MP | 9/16" | 1/2" |
| N06MJ12MP | 9/16" | 3/4" |
| N08MJ04MP | 3/4" | 1/4" |
| N08MJ06MP | 3/4" | 3/8" |
| N08MJ08MP | 3/4" | 1/2" |
| N08MJ12MP | 3/4" | 3/4" |
| N08MJ16MP | 3/4" | 1" |
| N10MJ06MP | 7/8" | 3/8" |
| N10MJ08MP | 7/8" | 1/2" |
| N10MJ12MP | 7/8" | 3/4" |
| N10MJ16MP | 7/8" | 1" |
| N12MJ08MP | 1 1/16" | 1/2" |
| N12MJ12MP | 1 1/16" | 3/4" |
| N12MJ16MP | 1 1/16" | 1" |
| N14MJ12MP | 1 3/16" | 3/4" |
| N16MJ12MP | 1 5/16" | 3/4" |
| N16MJ16MP | 1 5/16" | 1" |
| N16MJ20MP | 1 5/16" | 1 1/4" |
| N20MJ16MP | 1 5/8" | 1" |
| N20MJ20MP | 1 5/8" | 1 1/4" |
| N20MJ24MP | 1 5/8" | 1 1/2" |
| N24MJ16MP | 1 7/8" | 1" |
| N24MJ20MP | 1 7/8" | 1 1/4" |
| N24MJ24MP | 1 7/8" | 1 1/2" |
| N32MJ24MP | 2 1/2" | 1 1/2" |
| N32MJ32MP | 2 1/2" | 2" |
| N40MJ32MP | 3" | 2" |

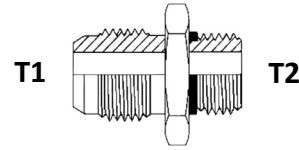
NIPPLES

JIC X NPT M/M LONG NIPPLE



| PART NUMBER | THREAD T1 JIC | THREAD T2 NPT |
|-------------|------------------|------------------|
| N04MJ02MPL | 7/16" | 1/8" |
| N04MJ04MPL | 7/16" | 1/4" |
| N06MJ06MPL | 9/16" | 3/8" |
| N08MJ06MPL | 3/4" | 3/8" |
| N08MJ08MPL | 3/4" | 1/2" |

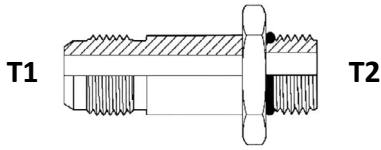
JIC X UNO M/M NIPPLE



| PART NUMBER | THREAD T1 JIC | THREAD T2 UNO |
|-------------|------------------|------------------|
| N04MJ04RA | 7/16" | 7/16" |
| N04MJ05RA | 7/16" | 1/2" |
| N04MJ06RA | 7/16" | 9/16" |
| N04MJ08RA | 7/16" | 3/4" |
| N05MJ04RA | 1/2" | 7/16" |
| N05MJ05RA | 1/2" | 1/2" |
| N05MJ06RA | 1/2" | 9/16" |
| N05MJ08RA | 1/2" | 3/4" |
| N06MJ04RA | 9/16" | 7/16" |
| N06MJ05RA | 9/16" | 1/2" |
| N06MJ06RA | 9/16" | 9/16" |
| N06MJ08RA | 9/16" | 3/4" |
| N06MJ10RA | 9/16" | 7/8" |
| N06MJ12RA | 9/16" | 1 1/16" |
| N08MJ04RA | 3/4" | 7/16" |
| N08MJ06RA | 3/4" | 9/16" |
| N08MJ08RA | 3/4" | 3/4" |
| N08MJ10RA | 3/4" | 7/8" |
| N12MJ08RA | 1 1/16" | 3/4" |
| N12MJ10RA | 1 1/16" | 7/8" |
| N12MJ12RA | 1 1/16" | 1 1/16" |
| N12MJ14RA | 1 1/16" | 1 3/16" |
| N12MJ16RA | 1 1/16" | 1 5/16" |
| N12MJ20RA | 1 1/16" | 1 5/8" |
| N16MJ20RA | 1 5/16" | 1 5/8" |
| N16MJ24RA | 1 5/16" | 1 7/8" |
| N20MJ16RA | 1 5/8" | 1 5/16" |
| N20MJ20RA | 1 5/8" | 1 5/8" |
| N20MJ24RA | 1 5/8" | 1 7/8" |
| N24MJ20RA | 1 7/8" | 1 5/8" |
| N24MJ24RA | 1 7/8" | 1 7/8" |

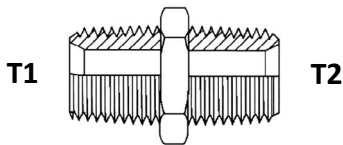
NIPPLES

JIC X UNO M/M LONG NIPPLE



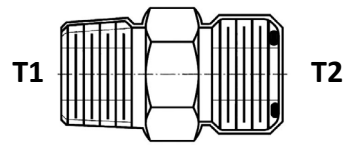
| PART NUMBER | THREAD T1 JIC | THREAD T2 UNO |
|-------------|------------------|------------------|
| N04MJ04RAL | 7/16" | 7/16" |
| N05MJ05RAL | 1/2" | 1/2" |
| N06MJ06RAL | 9/16" | 9/16" |
| N08MJ08RAL | 3/4" | 3/4" |
| N10MJ10RAL | 7/8" | 7/8" |
| N12MJ12RAL | 1 1/16" | 1 1/16" |
| N16MJ16RAL | 1 5/16" | 1 5/16" |

NPT X NPT M/M NIPPLE



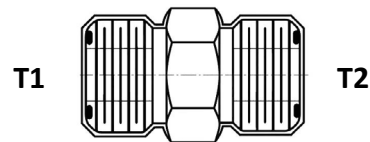
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|-------------|------------------|------------------|
| N02MP | 1/8" | 1/8" |
| N0204MP | 1/8" | 1/4" |
| N04MP | 1/4" | 1/4" |
| N0406MP | 1/4" | 3/8" |
| N0408MP | 1/4" | 1/2" |
| N06MP | 3/8" | 3/8" |
| N0608MP | 3/8" | 1/2" |
| N08MP | 1/2" | 1/2" |
| N0812MP | 1/2" | 3/4" |
| N12MP | 3/4" | 3/4" |
| N1216MP | 3/4" | 1" |
| N16MP | 1" | 1" |
| N1620MP | 1" | 1 1/4" |
| N20MP | 1 1/4" | 1 1/4" |
| N24MP | 1 1/2" | 1 1/2" |
| N32MP | 2" | 2" |

NPT X ORFS M/M NIPPLE



| PART NUMBER | THREAD T1 NPT | THREAD T2 ORFS |
|-------------|------------------|-------------------|
| N02MP04OM | 1/8" | 9/16" |
| N04MP04OM | 1/4" | 9/16" |
| N04MP06OM | 1/4" | 11/16" |
| N04MP08OM | 1/4" | 13/16" |
| N06MP04OM | 3/8" | 9/16" |
| N06MP06OM | 3/8" | 11/16" |
| N06MP08OM | 3/8" | 13/16" |
| N08MP06OM | 1/2" | 11/16" |
| N08MP08OM | 1/2" | 13/16" |
| N08MP10OM | 1/2" | 1" |
| N12MP12OM | 3/4" | 1 3/16" |
| N16MP16OM | 1" | 1 7/16" |
| N20MP20OM | 1 1/4" | 1 11/16" |

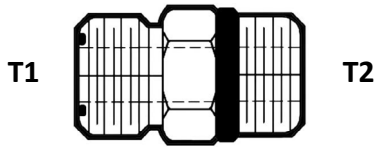
ORFS X ORFS M/M NIPPLE



| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS |
|-------------|-------------------|-------------------|
| N04OM | 9/16" | 9/16" |
| N06OM | 11/16" | 11/16" |
| N0608OM | 11/16" | 13/16" |
| N08OM | 13/16" | 13/16" |
| N10OM | 1" | 1" |
| N1012OM | 1" | 1 3/16" |
| N12OM | 1 3/16" | 1 3/16" |
| N16OM | 1 7/16" | 1 7/16" |
| N20OM | 1 11/16" | 1 11/16" |

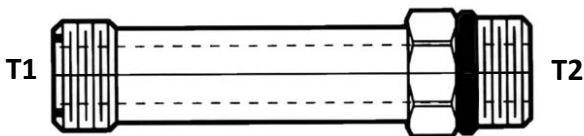
NIPPLES

ORFS X UNO M/M NIPPLE



| PART NUMBER | THREAD T1 ORFS | THREAD T2 UNO |
|-------------|----------------|---------------|
| N04OM04RA | 9/16" | 7/16" |
| N04OM06RA | 9/16" | 9/16" |
| N04OM08RA | 9/16" | 3/4" |
| N06OM04RA | 11/16" | 7/16" |
| N06OM06RA | 11/16" | 9/16" |
| N06OM08RA | 11/16" | 3/4" |
| N06OM10RA | 11/16" | 7/8" |
| N08OM06RA | 13/16" | 9/16" |
| N08OM08RA | 13/16" | 3/4" |
| N08OM12RA | 13/16" | 1 1/16" |
| N08OM10RA | 13/16" | 7/8" |
| N10OM08RA | 1" | 3/4" |
| N10OM10RA | 1" | 7/8" |
| N10OM12RA | 1" | 1 1/16" |
| N12OM08RA | 1 3/16" | 3/4" |
| N12OM10RA | 1 3/16" | 7/8" |
| N12OM12RA | 1 3/16" | 1 1/16" |
| N12OM16RA | 1 3/16" | 1 5/16" |
| N16OM12RA | 1 7/16" | 1 1/16" |
| N16OM16RA | 1 7/16" | 1 5/16" |

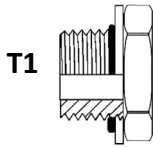
ORFS X UNO M/M LONG NIPPLE



| PART NUMBER | THREAD T1 ORFS | THREAD T2 UNO |
|-------------|----------------|---------------|
| N04OM04RAL | 9/16" | 7/16" |
| N06OM06RAL | 11/16" | 9/16" |
| N08OM08RAL | 13/16" | 3/4" |
| N10OM10RAL | 1" | 7/8" |
| N12OM12RAL | 1 3/16" | 1 1/16" |
| N16OM16RAL | 1 7/16" | 1 5/16" |
| N20OM20RAL | 1 11/16" | 1 5/8" |

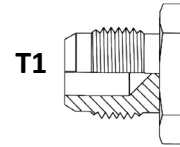
PLUGS

BSPP PLUG



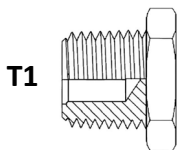
| PART NUMBER | THREAD T1 BSPP |
|---|----------------|
| P02BP | 1/8" |
| P04BP | 1/4" |
| P06BP | 3/8" |
| P08BP | 1/2" |
| P12BP | 3/4" |
| P16BP | 1" |
| P20BP | 1 1/4" |
| P24BP | 1 1/2" |
| P32BP | 2" |
| SUPPLIED WITH O RING, WASHER | |

JIC PLUG



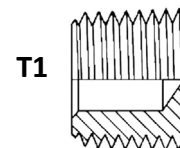
| PART NUMBER | THREAD T1 JIC |
|-------------|---------------|
| P02MJ | 5/16" |
| P03MJ | 3/8" |
| P04MJ | 7/16" |
| P05MJ | 1/2" |
| P06MJ | 9/16" |
| P08MJ | 3/4" |
| P10MJ | 7/8" |
| P12MJ | 1 1/16" |
| P16MJ | 1 5/16" |
| P20MJ | 1 5/8" |
| P24MJ | 1 7/8" |
| P32MJ | 2 1/2" |

BSPT PLUG



| PART NUMBER | THREAD T1 BSPT |
|-------------|----------------|
| P02BT | 1/8" |
| P04BT | 1/4" |
| P06BT | 3/8" |
| P08BT | 1/2" |
| P12BT | 3/4" |
| P16BT | 1" |
| P20BT | 1 1/4" |
| P24BT | 1 1/2" |
| P32BT | 2" |

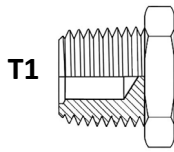
NPT SOCKETHEAD PLUG



| PART NUMBER | THREAD T1 NPT |
|-------------|---------------|
| P02MPAK | 1/8" |
| P04MPAK | 1/4" |
| P06MPAK | 3/8" |
| P08MPAK | 1/2" |
| P12MPAK | 3/4" |
| P16MPAK | 1" |
| P20MPAK | 1 1/4" |
| P24MPAK | 1 1/2" |

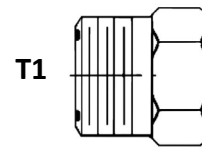
PLUGS

NPT PLUG



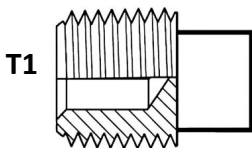
| PART NUMBER | THREAD T1 NPT |
|-------------|---------------|
| P02MP | 1/8" |
| P04MP | 1/4" |
| P06MP | 3/8" |
| P08MP | 1/2" |
| P12MP | 3/4" |
| P16MP | 1" |
| P20MP | 1 1/4" |
| P24MP | 1 1/2" |
| P32MP | 2" |

ORFS PLUG



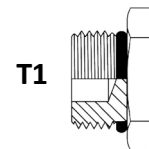
| PART NUMBER | THREAD T1 ORFS |
|-------------|----------------|
| P04OM | 9/16" |
| P06OM | 11/16" |
| P08OM | 13/16" |
| P10OM | 1" |
| P12OM | 1 3/16" |
| P16OM | 1 7/16" |
| P20OM | 1 11/16" |
| P24OM | 2" |

NPT SQUARE HEAD PLUG



| PART NUMBER | THREAD T1 NPT |
|-------------|---------------|
| P02MPSH | 1/8" |
| P04MPSH | 1/4" |
| P06MPSH | 3/8" |
| P08MPSH | 1/2" |
| P12MPSH | 3/4" |
| P16MPSH | 1" |

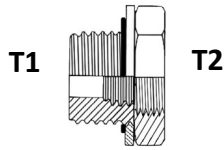
UNO PLUG



| PART NUMBER | THREAD T1 UNO |
|-------------|---------------|
| P04RA | 7/16" |
| P05RA | 1/2" |
| P06RA | 9/16" |
| P08RA | 3/4" |
| P10RA | 7/8" |
| P12RA | 1 1/16" |
| P14RA | 1 3/16" |
| P16RA | 1 5/16" |
| P20RA | 1 5/8" |
| P24RA | 1 7/8" |

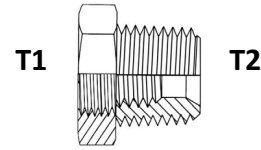
REDUCERS

BSPP X BSPP M/F REDUCING BUSH



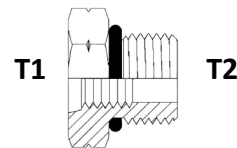
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP |
|-------------|-------------------|-------------------|
| R02BP04BPF | 1/8" | 1/4" |
| R06BP04BPF | 3/8" | 1/4" |
| R08BP04BPF | 1/2" | 1/4" |
| R08BP06BPF | 1/2" | 3/8" |
| R12BP04BPF | 3/4" | 1/4" |
| R12BP06BPF | 3/4" | 3/8" |
| R12BP08BPF | 3/4" | 1/2" |
| R16BP04BPF | 1" | 1/4" |
| R16BP08BPF | 1" | 1/2" |
| R16BP12BPF | 1" | 3/4" |
| R16BP20BPF | 1" | 1 1/4" |
| R20BP12BPF | 1 1/4" | 3/4" |
| R20BP16BPF | 1 1/4" | 1" |

BSPT X BSPT F/M REDUCING BUSH



| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| R02BS04BT | 1/8" | 1/4" |
| R02BS06BT | 1/8" | 3/8" |
| R02BS08BT | 1/8" | 1/2" |
| R04BS06BT | 1/4" | 3/8" |
| R04BS08BT | 1/4" | 1/2" |
| R04BS12BT | 1/4" | 3/4" |
| R04BS16BT | 1/4" | 1" |
| R06BS08BT | 3/8" | 1/2" |
| R06BS12BT | 3/8" | 3/4" |
| R06BS16BT | 3/8" | 1" |
| R08BS12BT | 1/2" | 3/4" |
| R08BS16BT | 1/2" | 1" |
| R08BS20BT | 1/2" | 1 1/4" |
| R12BS16BT | 3/4" | 1" |
| R12BS20BT | 3/4" | 1 1/4" |
| R12BS24BT | 3/4" | 1 1/2" |
| R16BS20BT | 1" | 1 1/4" |
| R16BS24BT | 1" | 1 1/2" |
| R16BS32BT | 1" | 2" |
| R20BS24BT | 1 1/4" | 1 1/2" |
| R20BS32BT | 1 1/4" | 2" |
| R24BS32BT | 1 1/2" | 2" |

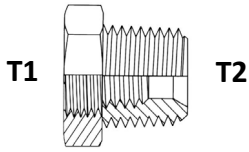
BSPT X UNO F/M REDUCING BUSH



| PART NUMBER | THREAD T1 BSPT | THREAD T2 UNO |
|-------------|-------------------|------------------|
| R04BS12RA | 1/4" | 1 1/16" |
| R04BS16RA | 1/4" | 1 5/16" |
| R08BS16RA | 1/2" | 1 5/16" |
| R12BS16RA | 3/4" | 1 5/16" |

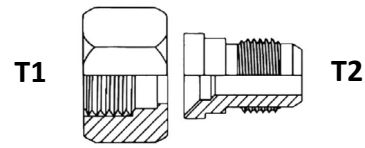
REDUCERS

NPT X NPT F/M REDUCING BUSH



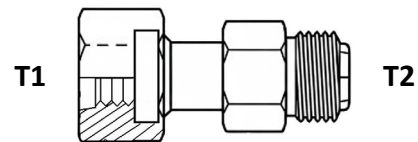
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|-------------|------------------|------------------|
| R02FF04MP | 1/8" | 1/4" |
| R02FF06MP | 1/8" | 3/8" |
| R02FF08MP | 1/8" | 1/2" |
| R04FF06MP | 1/4" | 3/8" |
| R04FF08MP | 1/4" | 1/2" |
| R04FF12MP | 1/4" | 3/4" |
| R06FF08MP | 3/8" | 1/2" |
| R06FF12MP | 3/8" | 3/4" |
| R06FF16MP | 3/8" | 1" |
| R08FF12MP | 1/2" | 3/4" |
| R08FF16MP | 1/2" | 1" |
| R08FF20MP | 1/2" | 1 1/4" |
| R12FF16MP | 3/4" | 1" |
| R12FF20MP | 3/4" | 1 1/4" |
| R12FF24MP | 3/4" | 1 1/2" |
| R16FF20MP | 1" | 1 1/4" |
| R16FF24MP | 1" | 1 1/2" |
| R16FF32MP | 1" | 2" |
| R20FF24MP | 1 1/4" | 1 1/2" |
| R20FF32MP | 1 1/4" | 2" |

JIC X JIC F/M REDUCING BUSH



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC |
|-------------|------------------|------------------|
| R06FJ04MJ | 9/16" | 7/16" |
| R08FJ04MJ | 3/4" | 7/16" |
| R08FJ06MJ | 3/4" | 9/16" |
| R10FJ04MJ | 7/8" | 7/16" |
| R10FJ06MJ | 7/8" | 9/16" |
| R10FJ08MJ | 7/8" | 3/4" |
| R12FJ04MJ | 1 1/16" | 7/16" |
| R12FJ06MJ | 1 1/16" | 9/16" |
| R12FJ08MJ | 1 1/16" | 3/4" |
| R12FJ10MJ | 1 1/16" | 7/8" |
| R14FJ10MJ | 1 3/16" | 7/8" |
| R16FJ04MJ | 1 5/16" | 7/16" |
| R16FJ06MJ | 1 5/16" | 9/16" |
| R16FJ08MJ | 1 5/16" | 3/4" |
| R16FJ10MJ | 1 5/16" | 7/8" |
| R16FJ12MJ | 1 5/16" | 1 1/16" |
| R20FJ12MJ | 1 5/8" | 1 1/16" |
| R20FJ16MJ | 1 5/8" | 1 5/16" |

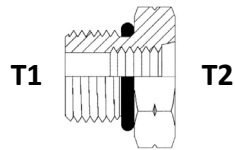
ORFS X ORFS F/M REDUCING BUSH



| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS |
|-------------|-------------------|-------------------|
| R08OF04OM | 13/16" | 9/16" |
| R08OF06OM | 13/16" | 11/16" |
| R10OF08OM | 1" | 13/16" |
| R12OF04OM | 1 3/16" | 9/16" |
| R12OF06OM | 1 3/16" | 11/16" |
| R16OF10OM | 1 7/16" | 1" |
| R16OF20OM | 1 7/16" | 1 11/16" |

REDUCERS

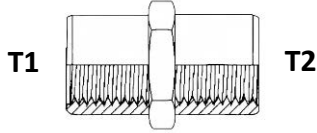
UNO X UNO M/F REDUCING BUSH



| PART NUMBER | THREAD T1 UNO | THREAD T2 UNO |
|-------------|---------------|---------------|
| R10RA06RF | 7/8" | 9/16" |
| R10RA08RF | 7/8" | 3/4" |
| R12RA08RF | 1 1/16" | 3/4" |
| R12RA10RF | 1 1/16" | 7/8" |
| R16RA12RF | 1 5/16" | 1 1/16" |
| R20RA16RF | 1 5/8" | 1 5/16" |

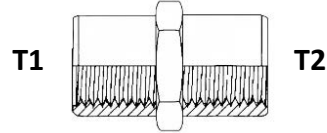
SOCKETS & SEALING RINGS

BSPP SOCKET



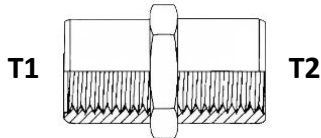
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP |
|-------------|-------------------|-------------------|
| S04BPF | 1/4" | 1/4" |
| S06BPF | 3/8" | 3/8" |
| S08BPF | 1/2" | 1/2" |
| S12BPF | 3/4" | 3/4" |
| S20BPF | 1 1/4" | 1 1/4" |
| S24BPF | 1 1/2" | 1 1/2" |

NPT SOCKET



| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT |
|-------------|------------------|------------------|
| S02FF | 1/8" | 1/8" |
| S04FF | 1/4" | 1/4" |
| S0406FF | 1/4" | 3/8" |
| S06FF | 3/8" | 3/8" |
| S08FF | 1/2" | 1/2" |
| S12FF | 3/4" | 3/4" |
| S16FF | 1" | 1" |
| S20FF | 1 1/4" | 1 1/4" |
| S24FF | 1 1/2" | 1 1/2" |
| S32FF | 2" | 2" |

BSPT SOCKET



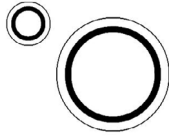
| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT |
|-------------|-------------------|-------------------|
| S02BS | 1/8" | 1/8" |
| S04BS | 1/4" | 1/4" |
| S0406BS | 1/4" | 3/8" |
| S0408BS | 1/4" | 1/2" |
| S06BS | 3/8" | 3/8" |
| S0608BS | 3/8" | 1/2" |
| S08BS | 1/2" | 1/2" |
| S0812BS | 1/2" | 3/4" |
| S10BS | 5/8" | 5/8" |
| S12BS | 3/4" | 3/4" |
| S1216BS | 3/4" | 1" |
| S16BS | 1" | 1" |
| S20BS | 1 1/4" | 1 1/4" |
| S24BS | 1 1/2" | 1 1/2" |
| S32BS | 2" | 2" |



SOCKETS & SEALING RINGS

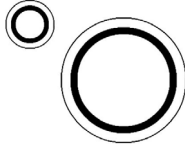


BSPP SEALING WASHER



| PART NUMBER | SUIT BSPP THREAD |
|-------------|------------------|
| SW02BP | 1/8" |
| SW04BP | 1/4" |
| SW06BP | 3/8" |
| SW08BP | 1/2" |
| SW12BP | 3/4" |
| SW16BP | 1" |
| SW20BP | 1 1/4" |
| SW24BP | 1 1/2" |
| SW32BP | 2" |

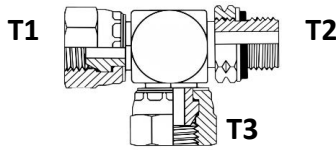
METRIC SEALING WASHER



| PART NUMBER | SUIT METRIC THREAD |
|-------------|--------------------|
| SW10MZ | 10 |
| SW12MZ | 12 |
| SW14MZ | 14 |
| SW16MZ | 16 |
| SW18MZ | 18 |
| SW20MZ | 20 |
| SW22MZ | 22 |
| SW24MZ | 24 |
| SW26MZ | 26 |
| SW27MZ | 27 |
| SW28MZ | 28 |
| SW30MZ | 30 |
| SW33MZ | 33 |
| SW36MZ | 36 |
| SW42MZ | 42 |

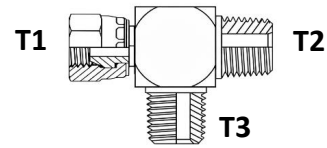
TEES

BSPP SW X BSPP X BSPP SW F/M/F TEE



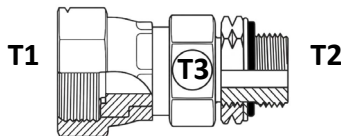
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP | THREAD T3 BSPP |
|---------------|----------------|----------------|----------------|
| T02BF02BP02BF | 1/8" | 1/8" | 1/8" |
| T04BF04BP04BF | 1/4" | 1/4" | 1/4" |
| T06BF06BP06BF | 3/8" | 3/8" | 3/8" |
| T08BF08BP08BF | 1/2" | 1/2" | 1/2" |
| T12BF12BP12BF | 3/4" | 3/4" | 3/4" |
| T16BF16BP16BF | 1" | 1" | 1" |

BSPP SW X BSPT X BSPT F/M/M TEE



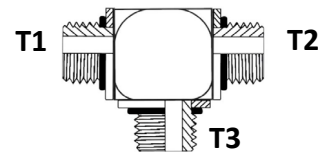
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPT | THREAD T3 BSPT |
|---------------|----------------|----------------|----------------|
| T02BF02BT02BT | 1/8" | 1/8" | 1/8" |
| T04BF04BT04BT | 1/4" | 1/4" | 1/4" |
| T06BF06BT06BT | 3/8" | 3/8" | 3/8" |
| T06BF06BT08BT | 3/8" | 3/8" | 1/2" |
| T08BF08BT08BT | 1/2" | 1/2" | 1/2" |
| T12BF12BT12BT | 3/4" | 3/4" | 3/4" |
| T16BF16BT16BT | 1" | 1" | 1" |
| T20BF20BT20BT | 1 1/4" | 1 1/4" | 1 1/4" |

TEST ADAPTOR BSPP SW X BSPP X BSPP F/M/F TEE



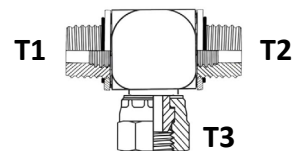
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP | THREAD T3 BSPP |
|----------------|----------------|----------------|----------------|
| T04BF04BP02BPF | 1/4" | 1/4" | 1/8" |
| T06BF06BP02BPF | 3/8" | 3/8" | 1/8" |
| T08BF08BP02BPF | 1/2" | 1/2" | 1/8" |
| T08BF08BP04BPF | 1/2" | 1/2" | 1/4" |
| T12BF12BP02BPF | 3/4" | 3/4" | 1/8" |
| T12BF12BP04BPF | 3/4" | 3/4" | 1/4" |
| T16BF16BP02BPF | 1" | 1" | 1/8" |
| T16BF16BP04BPF | 1" | 1" | 1/4" |
| T20BF20BP02BPF | 1 1/4" | 1 1/4" | 1/8" |
| T24BF24BP02BPF | 1 1/2" | 1 1/2" | 1/8" |

BSPP X BSPP X BSPP M/M/M TEE



| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP | THREAD T3 BSPP |
|-------------|----------------|----------------|----------------|
| T04BP | 1/4" | 1/4" | 1/4" |
| T06BP | 3/8" | 3/8" | 3/8" |
| T08BP | 1/2" | 1/2" | 1/2" |
| T12BP | 3/4" | 3/4" | 3/4" |
| T16BP | 1" | 1" | 1" |

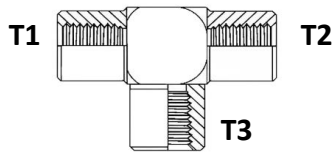
BSPP X BSPP X BSPP SW M/M/F TEE



| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP | THREAD T3 BSPP |
|---------------|----------------|----------------|----------------|
| T04BP04BP04BF | 1/4" | 1/4" | 1/4" |
| T06BP06BP06BF | 3/8" | 3/8" | 3/8" |
| T08BP08BP08BF | 1/2" | 1/2" | 1/2" |
| T12BP12BP12BF | 3/4" | 3/4" | 3/4" |
| T16BP16BP16BF | 1" | 1" | 1" |

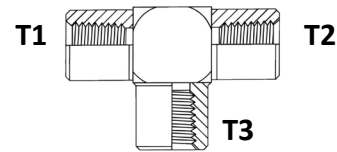
TEES

BSPP X BSPP X BSPP F/F/F TEE



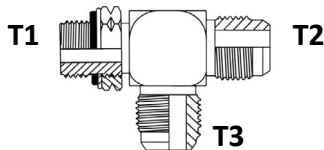
| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPP | THREAD T3 BSPP |
|-------------|----------------|----------------|----------------|
| T02BPF | 1/8" | 1/8" | 1/8" |
| T04BPF | 1/4" | 1/4" | 1/4" |
| T06BPF | 3/8" | 3/8" | 3/8" |
| T08BPF | 1/2" | 1/2" | 1/2" |
| T12BPF | 3/4" | 3/4" | 3/4" |
| T16BPF | 1" | 1" | 1" |
| T20BPF | 1 1/4" | 1 1/4" | 1 1/4" |
| T24BPF | 1 1/2" | 1 1/2" | 1 1/2" |
| T32BPF | 2" | 2" | 2" |

BSPT X BSPT X BSPT F/F/F TEE



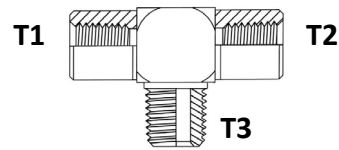
| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT | THREAD T3 BSPT |
|-------------|----------------|----------------|----------------|
| T02BS | 1/8" | 1/8" | 1/8" |
| T04BS | 1/4" | 1/4" | 1/4" |
| T06BS | 3/8" | 3/8" | 3/8" |
| T08BS | 1/2" | 1/2" | 1/2" |
| T12BS | 3/4" | 3/4" | 3/4" |
| T16BS | 1" | 1" | 1" |
| T20BS | 1 1/4" | 1 1/4" | 1 1/4" |
| T24BS | 1 1/2" | 1 1/2" | 1 1/2" |
| T32BS | 2" | 2" | 2" |

BSPP X JIC X JIC M/M/M TEE



| PART NUMBER | THREAD T1 BSPP | THREAD T2 JIC | THREAD T3 JIC |
|---------------|----------------|---------------|---------------|
| T02BP04MJ04MJ | 1/8" | 7/16" | 7/16" |
| T04BP04MJ04MJ | 1/4" | 7/16" | 7/16" |
| T04BP06MJ06MJ | 1/4" | 9/16" | 9/16" |
| T06BP06MJ06MJ | 3/8" | 9/16" | 9/16" |
| T06BP08MJ08MJ | 3/8" | 3/4" | 3/4" |
| T08BP06MJ06MJ | 1/2" | 9/16" | 9/16" |
| T08BP08MJ08MJ | 1/2" | 3/4" | 3/4" |
| T08BP10MJ10MJ | 1/2" | 7/8" | 7/8" |
| T08BP12MJ12MJ | 1/2" | 1 1/16" | 1 1/16" |
| T12BP08MJ08MJ | 3/4" | 3/4" | 3/4" |
| T12BP10MJ10MJ | 3/4" | 7/8" | 7/8" |
| T12BP12MJ12MJ | 3/4" | 1 1/16" | 1 1/16" |
| T16BP12MJ12MJ | 1" | 1 1/16" | 1 1/16" |
| T16BP16MJ16MJ | 1" | 1 5/16" | 1 5/16" |
| T20BP20MJ20MJ | 1 1/4" | 1 5/8" | 1 5/8" |

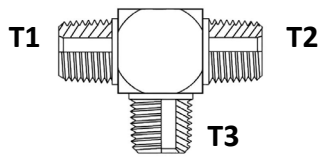
BSPT X BSPT X BSPT F/F/M TEE



| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT | THREAD T3 BSPT |
|---------------|----------------|----------------|----------------|
| T04BS04BS04BT | 1/4" | 1/4" | 1/4" |
| T06BS06BS08BT | 3/8" | 3/8" | 3/8" |
| T08BS08BS08BT | 1/2" | 1/2" | 1/2" |
| T12BS12BS12BT | 3/4" | 3/4" | 3/4" |
| T16BS16BS16BT | 1" | 1" | 1" |

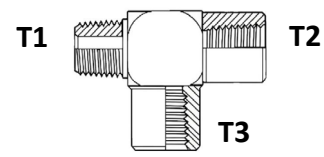
TEES

BSPT X BSPT X BSPT M/M/M TEE



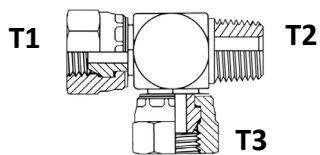
| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT | THREAD T3 BSPT |
|-------------|----------------|----------------|----------------|
| T02BT | 1/8" | 1/8" | 1/8" |
| T04BT | 1/4" | 1/4" | 1/4" |
| T06BT | 3/8" | 3/8" | 3/8" |
| T08BT | 1/2" | 1/2" | 1/2" |
| T12BT | 3/4" | 3/4" | 3/4" |
| T16BT | 1" | 1" | 1" |
| T20BT | 1 1/4" | 1 1/4" | 1 1/4" |
| T24BT | 1 1/2" | 1 1/2" | 1 1/2" |
| T32BT | 2" | 2" | 2" |

BSPT X BSPT X BSPT M/F/F TEE



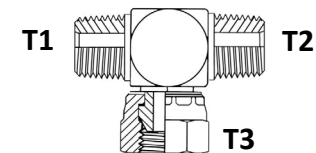
| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT | THREAD T3 BSPT |
|---------------|----------------|----------------|----------------|
| T02BT02BS02BS | 1/8" | 1/8" | 1/8" |
| T04BT04BS04BS | 1/4" | 1/4" | 1/4" |
| T06BT06BS06BS | 3/8" | 3/8" | 3/8" |
| T08BT08BS08BS | 1/2" | 1/2" | 1/2" |
| T12BT12BS12BS | 3/4" | 3/4" | 3/4" |
| T16BT16BS16BS | 1" | 1" | 1" |
| T20BT20BS20BS | 1 1/4" | 1 1/4" | 1 1/4" |

BSPP SW X BSPT X BSPP SW F/M/F TEE



| PART NUMBER | THREAD T1 BSPP | THREAD T2 BSPT | THREAD T3 BSPP |
|---------------|----------------|----------------|----------------|
| T06BF06BT04BF | 3/8" | 3/8" | 1/4" |
| T06BF06BT06BF | 3/8" | 3/8" | 3/8" |
| T08BF08BT04BF | 1/2" | 1/2" | 1/4" |
| T08BF08BT08BF | 1/2" | 1/2" | 1/2" |
| T12BF12BT04BF | 3/4" | 3/4" | 1/4" |
| T12BF12BT12BF | 3/4" | 3/4" | 3/4" |
| T16BF16BT16BF | 1" | 1" | 1" |

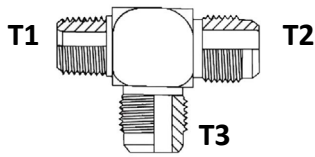
BSPT X BSPT X BSPP SW M/M/F TEE



| PART NUMBER | THREAD T1 BSPT | THREAD T2 BSPT | THREAD T3 BSPP |
|---------------|----------------|----------------|----------------|
| T04BT04BT04BF | 1/4" | 1/4" | 1/4" |
| T06BT06BT04BF | 3/8" | 3/8" | 1/4" |
| T06BT06BT06BF | 3/8" | 3/8" | 3/8" |
| T08BT08BT08BF | 1/2" | 1/2" | 1/2" |
| T12BT12BT08BF | 3/4" | 3/4" | 1/2" |
| T12BT12BT12BF | 3/4" | 3/4" | 3/4" |
| T16BT16BT16BF | 1" | 1" | 1" |
| T20BT20BT20BF | 1 1/4" | 1 1/4" | 1 1/4" |
| T24BT24BT24BF | 1 1/2" | 1 1/2" | 1 1/2" |

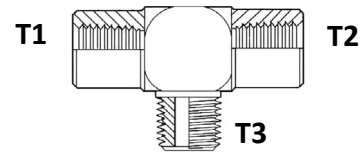
TEES

BSPT X JIC X JIC M/M/M TEE



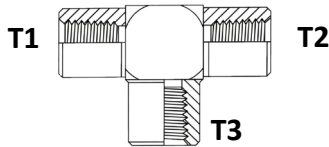
| PART NUMBER | THREAD T1 BSPT | THREAD T2 JIC | THREAD T3 JIC |
|---------------|----------------|---------------|---------------|
| T02BT04MJ04MJ | 1/8" | 7/16" | 7/16" |
| T04BT04MJ04MJ | 1/4" | 7/16" | 7/16" |
| T04BT06MJ06MJ | 1/4" | 9/16" | 9/16" |
| T06BT06MJ06MJ | 3/8" | 9/16" | 9/16" |
| T06BT08MJ08MJ | 3/8" | 3/4" | 3/4" |
| T08BT08MJ08MJ | 1/2" | 3/4" | 3/4" |
| T08BT10MJ10MJ | 1/2" | 7/8" | 7/8" |
| T12BT12MJ12MJ | 3/4" | 1 1/16" | 1 1/16" |
| T16BT16MJ16MJ | 1" | 1 5/16" | 1 5/16" |

NPT X NPT X NPT F/F/M TEE



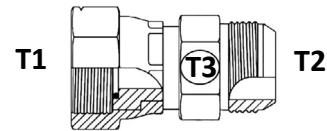
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT | THREAD T3 NPT |
|---------------|---------------|---------------|---------------|
| T02FF02FF02MP | 1/8" | 1/8" | 1/8" |
| T04FF04FF04MP | 1/4" | 1/4" | 1/4" |
| T06FF06FF06MP | 3/8" | 3/8" | 3/8" |
| T08FF08FF08MP | 1/2" | 1/2" | 1/2" |
| T12FF12FF12MP | 3/4" | 3/4" | 3/4" |
| T16FF16FF16MP | 1" | 1" | 1" |
| T20FF20FF20MP | 1 1/4" | 1 1/4" | 1 1/4" |

NPT X NPT X NPT F/F/F TEE



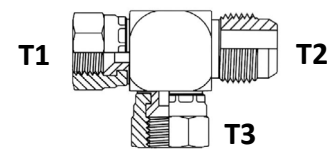
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT | THREAD T3 NPT |
|-------------|---------------|---------------|---------------|
| T02FF | 1/8" | 1/8" | 1/8" |
| T04FF | 1/4" | 1/4" | 1/4" |
| T06FF | 3/8" | 3/8" | 3/8" |
| T08FF | 1/2" | 1/2" | 1/2" |
| T12FF | 3/4" | 3/4" | 3/4" |
| T16FF | 1" | 1" | 1" |
| T20FF | 1 1/4" | 1 1/4" | 1 1/4" |
| T24FF | 1 1/2" | 1 1/2" | 1 1/2" |
| T32FF | 2" | 2" | 2" |

TEST ADAPTOR JIC SW X JIC X BSPP F/M/F TEE



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 BSPP |
|----------------|---------------|---------------|----------------|
| T04FJ04MJ02BPF | 7/16" | 7/16" | 1/8" |
| T06FJ06MJ02BPF | 9/16" | 9/16" | 1/8" |
| T08FJ08MJ02BPF | 3/4" | 3/4" | 1/8" |
| T10FJ10MJ02BPF | 7/8" | 7/8" | 1/8" |
| T12FJ12MJ02BPF | 1 1/16" | 1 1/16" | 1/8" |
| T16FJ16MJ02BPF | 1 5/16" | 1 5/16" | 1/8" |

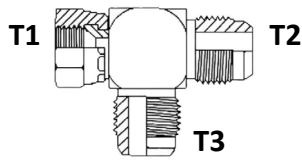
JIC SW X JIC X JIC SW F/M/F TEE



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 JIC |
|---------------|---------------|---------------|---------------|
| T04FJ04MJ04FJ | 7/16" | 7/16" | 7/16" |
| T06FJ06MJ06FJ | 9/16" | 9/16" | 9/16" |
| T08FJ08MJ08FJ | 3/4" | 3/4" | 3/4" |
| T10FJ10MJ10FJ | 7/8" | 7/8" | 7/8" |
| T12FJ12MJ12FJ | 1 1/16" | 1 1/16" | 1 1/16" |
| T16FJ16MJ16FJ | 1 5/16" | 1 5/16" | 1 5/16" |

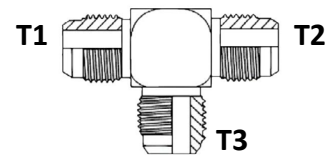
TEES

**JIC SW X JIC X JIC
F/M/M TEE**



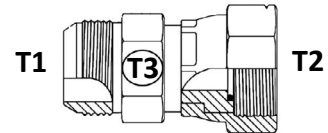
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 JIC |
|---------------|---------------|---------------|---------------|
| T04FJ04MJ04MJ | 7/16" | 7/16" | 7/16" |
| T05FJ05MJ05MJ | 1/2" | 1/2" | 1/2" |
| T06FJ06MJ06MJ | 9/16" | 9/16" | 9/16" |
| T08FJ08MJ08MJ | 3/4" | 3/4" | 3/4" |
| T10FJ10MJ10MJ | 7/8" | 7/8" | 7/8" |
| T12FJ12MJ12MJ | 1 1/16" | 1 1/16" | 1 1/16" |
| T16FJ16MJ16MJ | 1 5/16" | 1 5/16" | 1 5/16" |
| T20FJ20MJ20MJ | 1 5/8" | 1 5/8" | 1 5/8" |
| T24FJ24MJ24MJ | 1 7/8" | 1 7/8" | 1 7/8" |
| T32FJ32MJ32MJ | 2 1/2" | 2 1/2" | 2 1/2" |

**JIC X JIC X JIC
M/M/M TEE**



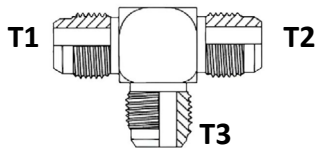
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 JIC |
|---------------|---------------|---------------|---------------|
| T08MJ08MJ10MJ | 3/4" | 3/4" | 7/8" |
| T10MJ10MJ12MJ | 7/8" | 7/8" | 1 1/16" |
| T12MJ12MJ10MJ | 1 1/16" | 1 1/16" | 7/8" |
| T16MJ16MJ12MJ | 1 5/16" | 1 5/16" | 1 1/16" |

**TEST ADAPTOR JIC X JIC SW X UNF
M/F/F TEE**



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 UNF |
|----------------|---------------|---------------|---------------|
| T04MJ04FJ04UNF | 7/16" | 7/16" | 7/16" |
| T06MJ06FJ04UNF | 9/16" | 9/16" | 7/16" |
| T08MJ08FJ04UNF | 3/4" | 3/4" | 7/16" |
| T10MJ10FJ04UNF | 7/8" | 7/8" | 7/16" |
| T12MJ12FJ04UNF | 1 1/16" | 1 1/16" | 7/16" |
| T16MJ16FJ04UNF | 1 5/16" | 1 5/16" | 7/16" |
| T20MJ20FJ04UNF | 1 5/8" | 1 5/8" | 7/16" |

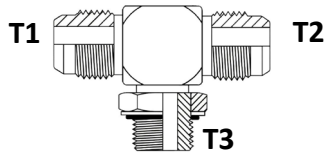
**JIC X JIC X JIC
M/M/M TEE**



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 JIC |
|-------------|---------------|---------------|---------------|
| T04MJ | 7/16" | 7/16" | 7/16" |
| T05MJ | 1/2" | 1/2" | 1/2" |
| T06MJ | 9/16" | 9/16" | 9/16" |
| T08MJ | 3/4" | 3/4" | 3/4" |
| T10MJ | 7/8" | 7/8" | 7/8" |
| T12MJ | 1 1/16" | 1 1/16" | 1 1/16" |
| T16MJ | 1 5/16" | 1 5/16" | 1 5/16" |
| T20MJ | 1 5/8" | 1 5/8" | 1 5/8" |
| T24MJ | 1 7/8" | 1 7/8" | 1 7/8" |

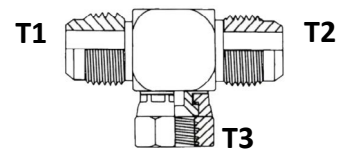
TEES

JIC X JIC X BSPP M/M/M TEE



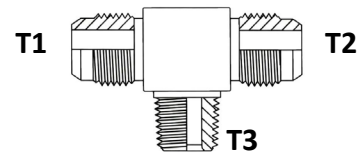
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 BSPP |
|---------------|---------------|---------------|----------------|
| T04MJ04MJ02BP | 7/16" | 7/16" | 1/8" |
| T04MJ04MJ04BP | 7/16" | 7/16" | 1/4" |
| T06MJ06MJ04BP | 9/16" | 9/16" | 1/4" |
| T06MJ06MJ06BP | 9/16" | 9/16" | 3/8" |
| T06MJ06MJ08BP | 9/16" | 9/16" | 1/2" |
| T08MJ08MJ06BP | 3/4" | 3/4" | 3/8" |
| T08MJ08MJ08BP | 3/4" | 3/4" | 1/2" |
| T08MJ08MJ12BP | 3/4" | 3/4" | 3/4" |
| T10MJ10MJ08BP | 7/8" | 7/8" | 1/2" |
| T10MJ10MJ12BP | 7/8" | 7/8" | 3/4" |
| T12MJ12MJ08BP | 1 1/16" | 1 1/16" | 1/2" |
| T12MJ12MJ12BP | 1 1/16" | 1 1/16" | 3/4" |
| T12MJ12MJ16BP | 1 1/16" | 1 1/16" | 1" |
| T16MJ16MJ16BP | 1 5/16" | 1 5/16" | 1" |
| T20MJ20MJ20BP | 1 5/8" | 1 5/8" | 1 1/4" |

JIC X JIC X JIC M/M/F TEE



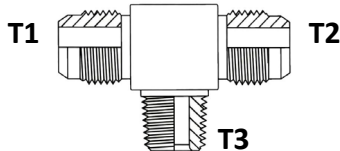
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 JIC |
|---------------|---------------|---------------|---------------|
| T04MJ04MJ04FJ | 7/16" | 7/16" | 7/16" |
| T05MJ05MJ05FJ | 1/2" | 1/2" | 1/2" |
| T06MJ06MJ06FJ | 9/16" | 9/16" | 9/16" |
| T08MJ08MJ08FJ | 3/4" | 3/4" | 3/4" |
| T10MJ10MJ10FJ | 7/8" | 7/8" | 7/8" |
| T12MJ12MJ12FJ | 1 1/16" | 1 1/16" | 1 1/16" |
| T16MJ16MJ16FJ | 1 5/16" | 1 5/16" | 1 5/16" |
| T20MJ20MJ20FJ | 1 5/8" | 1 5/8" | 1 5/8" |
| T24MJ24MJ24FJ | 1 7/8" | 1 7/8" | 1 7/8" |
| T32MJ32MJ32FJ | 2 1/2" | 2 1/2" | 2 1/2" |

JIC X JIC X NPT M/M/M TEE



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 NPT |
|---------------|---------------|---------------|---------------|
| T03MJ03MJ02MP | 5/16" | 5/16" | 1/8" |
| T04MJ04MJ02MP | 7/16" | 7/16" | 1/8" |
| T04MJ04MJ04MP | 7/16" | 7/16" | 1/4" |
| T05MJ05MJ02MP | 1/2" | 1/2" | 1/8" |
| T05MJ05MJ04MP | 1/2" | 1/2" | 1/4" |
| T06MJ06MJ04MP | 9/16" | 9/16" | 1/4" |
| T06MJ06MJ06MP | 9/16" | 9/16" | 3/8" |
| T06MJ06MJ08MP | 9/16" | 9/16" | 1/2" |
| T08MJ08MJ06MP | 3/4" | 3/4" | 3/8" |
| T08MJ08MJ08MP | 3/4" | 3/4" | 1/2" |
| T10MJ10MJ08MP | 7/8" | 7/8" | 1/2" |
| T12MJ12MJ08MP | 1 1/16" | 1 1/16" | 1/2" |
| T12MJ12MJ12MP | 1 1/16" | 1 1/16" | 3/4" |
| T16MJ16MJ16MP | 1 5/16" | 1 5/16" | 1" |
| T20MJ20MJ20MP | 1 5/8" | 1 5/8" | 1 1/4" |

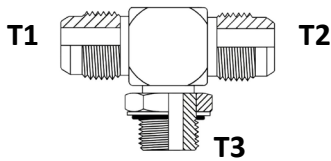
JIC X JIC X BSPT M/M/M TEE



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 BSPT |
|---------------|---------------|---------------|----------------|
| T04MJ04MJ02BT | 7/16" | 7/16" | 1/8" |
| T04MJ04MJ04BT | 7/16" | 7/16" | 1/4" |
| T06MJ06MJ04BT | 9/16" | 9/16" | 1/4" |
| T06MJ06MJ06BT | 9/16" | 9/16" | 3/8" |
| T08MJ08MJ04BT | 3/4" | 3/4" | 1/4" |
| T08MJ08MJ06BT | 3/4" | 3/4" | 3/8" |
| T08MJ08MJ08BT | 3/4" | 3/4" | 1/2" |
| T10MJ10MJ08BT | 7/8" | 7/8" | 1/2" |
| T12MJ12MJ12BT | 1 1/16" | 1 1/16" | 3/4" |
| T16MJ16MJ16BT | 1 5/16" | 1 5/16" | 1" |
| T20MJ20MJ20BT | 1 5/8" | 1 5/8" | 1 1/4" |

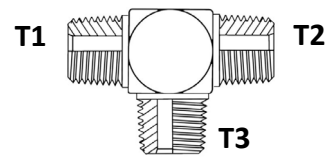
TEES

JIC X JIC X UNO M/M/M TEE



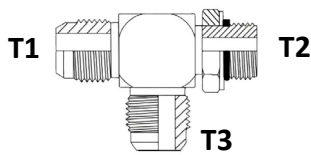
| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 UNO |
|---------------|---------------|---------------|---------------|
| T04MJ04MJ04RA | 7/16" | 7/16" | 7/16" |
| T05MJ05MJ05RA | 1/2" | 1/2" | 1/2" |
| T06MJ06MJ06RA | 9/16" | 9/16" | 9/16" |
| T08MJ08MJ08RA | 3/4" | 3/4" | 3/4" |
| T10MJ10MJ10RA | 7/8" | 7/8" | 7/8" |
| T12MJ12MJ12RA | 1 1/16" | 1 1/16" | 1 1/16" |
| T16MJ16MJ16RA | 1 5/16" | 1 5/16" | 1 5/16" |
| T20MJ20MJ20RA | 1 5/8" | 1 5/8" | 1 5/8" |
| T24MJ24MJ24RA | 1 7/8" | 1 7/8" | 1 7/8" |

NPT X NPT X NPT M/M/M TEE



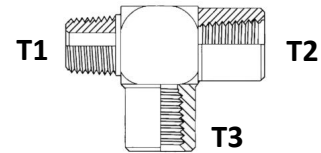
| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT | THREAD T3 NPT |
|-------------|---------------|---------------|---------------|
| T02MP | 1/8" | 1/8" | 1/8" |
| T04MP | 1/4" | 1/4" | 1/4" |
| T06MP | 3/8" | 3/8" | 3/8" |
| T08MP | 1/2" | 1/2" | 1/2" |
| T12MP | 3/4" | 3/4" | 3/4" |
| T16MP | 1" | 1" | 1" |
| T20MP | 1 1/4" | 1 1/4" | 1 1/4" |

JIC X UNO X JIC M/M/M TEE



| PART NUMBER | THREAD T1 JIC | THREAD T2 UNO | THREAD T3 JIC |
|---------------|---------------|---------------|---------------|
| T04MJ04RA04MJ | 7/16" | 7/16" | 7/16" |
| T05MJ05RA05MJ | 1/2" | 1/2" | 1/2" |
| T06MJ06RA06MJ | 9/16" | 9/16" | 9/16" |
| T08MJ08RA08MJ | 3/4" | 3/4" | 3/4" |
| T08MJ10RA08MJ | 3/4" | 7/8" | 3/4" |
| T10MJ10RA08MJ | 7/8" | 7/8" | 3/4" |
| T10MJ10RA10MJ | 7/8" | 7/8" | 7/8" |
| T12MJ12RA12MJ | 1 1/16" | 1 1/16" | 1 1/16" |
| T16MJ16RA16MJ | 1 5/16" | 1 5/16" | 1 5/16" |

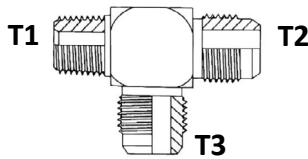
NPT X NPT X NPT M/F/F TEE



| PART NUMBER | THREAD T1 NPT | THREAD T2 NPT | THREAD T3 NPT |
|---------------|---------------|---------------|---------------|
| T02MP02FF02FF | 1/8" | 1/8" | 1/8" |
| T04MP04FF04FF | 1/4" | 1/4" | 1/4" |
| T06MP06FF06FF | 3/8" | 3/8" | 3/8" |
| T08MP08FF08FF | 1/2" | 1/2" | 1/2" |
| T12MP12FF12FF | 3/4" | 3/4" | 3/4" |
| T16MP16FF16FF | 1" | 1" | 1" |
| T20MP20FF20FF | 1 1/4" | 1 1/4" | 1 1/4" |
| T24MP24FF24FF | 1 1/2" | 1 1/2" | 1 1/2" |

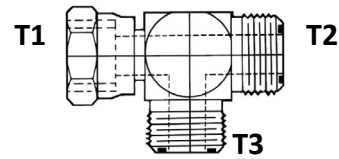
TEES

NPT X JIC X JIC M/M/M TEE



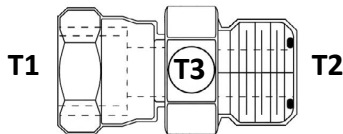
| PART NUMBER | THREAD T1 NPT | THREAD T2 JIC | THREAD T3 JIC |
|---------------|---------------|---------------|---------------|
| T02MP04MJ04MJ | 1/8" | 7/16" | 7/16" |
| T02MP05MJ05MJ | 1/8" | 1/2" | 1/2" |
| T04MP04MJ04MJ | 1/4" | 7/16" | 7/16" |
| T04MP05MJ05MJ | 1/4" | 1/2" | 1/2" |
| T04MP06MJ06MJ | 1/4" | 9/16" | 9/16" |
| T06MP06MJ06MJ | 3/8" | 9/16" | 9/16" |
| T08MP08MJ08MJ | 1/2" | 3/4" | 3/4" |
| T08MP10MJ10MJ | 1/2" | 7/8" | 7/8" |
| T12MP12MJ12MJ | 3/4" | 1 1/16 | 1 1/16 |
| T16MP16MJ16MJ | 1" | 1 5/16 | 1 5/16 |

ORFS SW X ORFS X ORFS F/M/M TEE



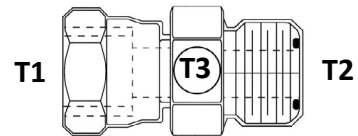
| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS | THREAD T3 ORFS |
|---------------|----------------|----------------|----------------|
| T04OF04OM04OM | 9/16" | 9/16" | 9/16" |
| T06OF06OM06OM | 11/16" | 11/16" | 11/16" |
| T08OF08OM08OM | 13/16" | 13/16" | 13/16" |
| T10OF10OM10OM | 1" | 1" | 1" |
| T12OF12OM12OM | 1 3/16" | 1 3/16" | 1 3/16" |
| T16OF16OM16OM | 1 7/16" | 1 7/16" | 1 7/16" |
| T20OF20OM20OM | 1 11/16" | 1 11/16" | 1 11/16" |
| T24OF24OM24OM | 2" | 2" | 2" |

TEST ADAPTOR ORFS SW X ORFS X BSPP F/M/F TEE



| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS | THREAD T3 BSPP |
|---------------|----------------|----------------|----------------|
| T04OF04OM02BF | 9/16" | 9/16" | 1/8" |
| T06OF06OM02BF | 11/16" | 11/16" | 1/8" |
| T08OF08OM02BF | 13/16" | 13/16" | 1/8" |
| T10OF10OM02BF | 1" | 1" | 1/8" |
| T12OF12OM02BF | 1 3/16" | 1 3/16" | 1/8" |
| T12OF12OM04BF | 1 3/16" | 1 3/16" | 1/4" |
| T16OF16OM02BF | 1 7/16" | 1 7/16" | 1/8" |
| T16OF16OM04BF | 1 7/16" | 1 7/16" | 1/4" |
| T20OF20OM02BF | 1 11/16" | 1 11/16" | 1/8" |
| T20OF20OM04BF | 1 11/16" | 1 11/16" | 1/4" |
| T24OF24OM02BF | 2" | 2" | 1/8" |

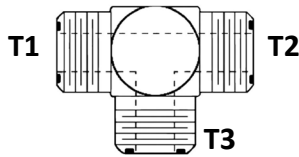
TEST ADAPTOR ORFS SW X ORFS X UNF F/M/F TEE



| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS | THREAD T3 UNF |
|----------------|----------------|----------------|---------------|
| T04OF04OM04UNF | 9/16" | 9/16" | 7/16" |
| T06OF06OM04UNF | 11/16" | 11/16" | 7/16" |
| T08OF08OM04UNF | 13/16" | 13/16" | 7/16" |
| T10OF10OM04UNF | 1" | 1" | 7/16" |
| T12OF12OM04UNF | 1 3/16" | 1 3/16" | 7/16" |
| T16OF16OM04UNF | 1 7/16" | 1 7/16" | 7/16" |
| T20OF20OM04UNF | 1 11/16" | 1 11/16" | 7/16" |
| T24OF24OM04UNF | 2" | 2" | 7/16" |

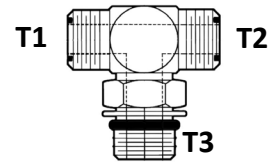
TEES

ORFS X ORFS X ORFS M/M/M TEE



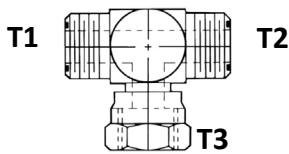
| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS | THREAD T3 ORFS |
|-------------|----------------|----------------|----------------|
| T04OM | 9/16" | 9/16" | 9/16" |
| T06OM | 11/16" | 11/16" | 11/16" |
| T08OM | 13/16" | 13/16" | 13/16" |
| T10OM | 1" | 1" | 1" |
| T12OM | 1 3/16" | 1 3/16" | 1 3/16" |
| T16OM | 1 7/16" | 1 7/16" | 1 7/16" |
| T20OM | 1 11/16" | 1 11/16" | 1 11/16" |
| T24OM | 2" | 2" | 2" |

ORFS X ORFS X UNO M/M/M TEE



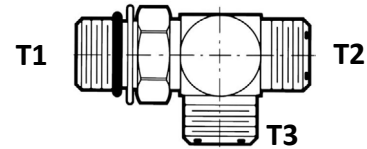
| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS | THREAD T3 UNO |
|---------------|----------------|----------------|---------------|
| T04OM04OM04RA | 9/16" | 9/16" | 7/16" |
| T06OM06OM06RA | 11/16" | 11/16" | 9/16" |
| T08OM08OM08RA | 13/16" | 13/16" | 3/4" |
| T10OM10OM10RA | 1" | 1" | 7/8" |
| T12OM12OM12RA | 1 3/16" | 1 3/16" | 1 1/16" |
| T16OM16OM16RA | 1 7/16" | 1 7/16" | 1 5/16" |
| T20OM20OM20RA | 1 11/16" | 1 11/16" | 1 5/8" |

ORFS X ORFS X ORFS SW M/M/F TEE



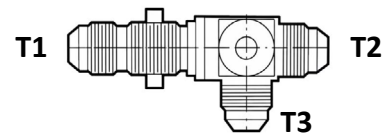
| PART NUMBER | THREAD T1 ORFS | THREAD T2 ORFS | THREAD T3 ORFS |
|---------------|----------------|----------------|----------------|
| T04OM04OM04OF | 9/16" | 9/16" | 9/16" |
| T06OM06OM06OF | 11/16" | 11/16" | 11/16" |
| T08OM08OM08OF | 13/16" | 13/16" | 13/16" |
| T10OM10OM10OF | 1" | 1" | 1" |
| T12OM12OM12OF | 1 3/16" | 1 3/16" | 1 3/16" |
| T16OM16OM16OF | 1 7/16" | 1 7/16" | 1 7/16" |
| T20OM20OM20OF | 1 11/16" | 1 11/16" | 1 11/16" |
| T24OM24OM24OF | 2" | 2" | 2" |

UNO X ORFS X ORFS M/M/M TEE



| PART NUMBER | THREAD T1 UNO | THREAD T2 ORFS | THREAD T3 ORFS |
|---------------|---------------|----------------|----------------|
| T04RA04OM04OM | 7/16" | 9/16" | 9/16" |
| T06RA06OM06OM | 9/16" | 11/16" | 11/16" |
| T08RA08OM08OM | 3/4" | 13/16" | 13/16" |
| T10RA10OM10OM | 7/8" | 1" | 1" |
| T12RA12OM12OM | 1 1/16" | 1 3/16" | 1 3/16" |
| T16RA16OM16OM | 1 5/16" | 1 7/16" | 1 7/16" |
| T20RA20OM20OM | 1 5/8" | 1 11/16" | 1 11/16" |

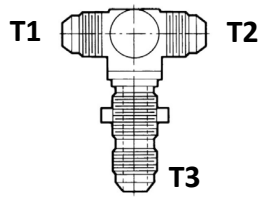
JIC X JIC X JIC RUN M/M/M BULKHEAD TEE



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 JIC |
|-------------|---------------|---------------|---------------|
| TBH04MJ1 | 7/16" | 7/16" | 7/16" |
| TBH06MJ1 | 9/16" | 9/16" | 9/16" |
| TBH08MJ1 | 3/4" | 3/4" | 3/4" |
| TBH10MJ1 | 7/8" | 7/8" | 7/8" |
| TBH12MJ1 | 1 1/16" | 1 1/16" | 1 1/16" |
| TBH16MJ1 | 1 5/16" | 1 5/16" | 1 5/16" |

TEES

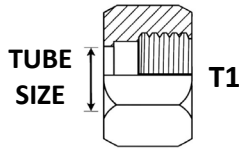
JIC X JIC X JIC DROP M/M/M BULKHEAD TEE



| PART NUMBER | THREAD T1 JIC | THREAD T2 JIC | THREAD T3 JIC |
|-------------|---------------|---------------|---------------|
| TBH04MJ3 | 7/16" | 7/16" | 7/16" |
| TBH06MJ3 | 9/16" | 9/16" | 9/16" |
| TBH08MJ3 | 3/4" | 3/4" | 3/4" |
| TBH10MJ3 | 7/8" | 7/8" | 7/8" |
| TBH12MJ3 | 1 1/16" | 1 1/16" | 1 1/16" |
| TBH16MJ3 | 1 5/16" | 1 5/16" | 1 5/16" |

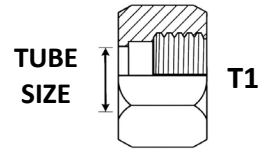
TUBE FITTINGS

JIC TUBE NUT



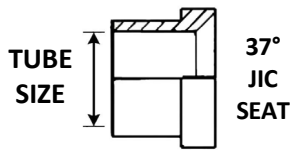
| PART NUMBER | THREAD T1 JIC | TUBE SIZE |
|-----------------------------|---------------|-----------|
| TN04FJ | 7/16" | 1/4" |
| TN05FJ | 1/2" | 5/16" |
| TN06FJ | 9/16" | 3/8" |
| TN08FJ | 3/4" | 1/2" |
| TN10FJ | 7/8" | 5/8" |
| TN12FJ | 1 1/16" | 3/4" |
| TN14FJ | 1 3/16" | 7/8" |
| TN16FJ | 1 5/16" | 1" |
| TN20FJ | 1 5/8" | 1 1/4" |
| TN24FJ | 1 7/8" | 1 1/2" |
| USE WITH TS.. SLEEVE | | |

ORFS TUBE NUT



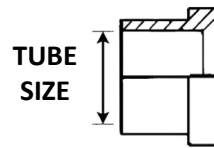
| PART NUMBER | THREAD T1 ORFS | TUBE SIZE |
|--------------------------------|----------------|-----------|
| TN04OF | 9/16" | 1/4" |
| TN06OF | 11/16" | 3/8" |
| TN08OF | 13/16" | 1/2" |
| TN10OF | 1" | 5/8" |
| TN12OF | 1 3/16" | 3/4" |
| TN16OF | 1 7/16" | 1" |
| TN20OF | 1 11/16" | 1 1/4" |
| TN24OF | 2" | 1 1/2" |
| USE WITH TS.. OF SLEEVE | | |

JIC TUBE SLEEVE



| PART NUMBER | TUBE SIZE | USE WITH NUT |
|-----------------------------|-----------|--------------|
| TS04 | 1/4" | TN04FJ |
| TS05 | 5/16" | TN05FJ |
| TS06 | 3/8" | TN06FJ |
| TS08 | 1/2" | TN08FJ |
| TS10 | 5/8" | TN10FJ |
| TS12 | 3/4" | TN12FJ |
| TS14 | 7/8" | TN14FJ |
| TS16 | 1" | TN16FJ |
| TS20 | 1 1/4" | TN20FJ |
| TS24 | 1 1/2" | TN24FJ |
| USE WITH TN.. FJ NUT | | |

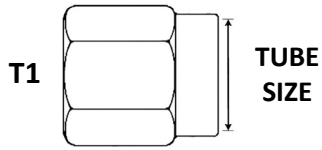
ORFS TUBE SLEEVE



| PART NUMBER | TUBE SIZE | USE WITH NUT |
|-----------------------------|-----------|--------------|
| TS04OD04OF | 1/4" | TN04OF |
| TS04OD06OF | 1/4" | TN06OF |
| TS06OD04OF | 3/8" | TN04OF |
| TS06OD06OF | 3/8" | TN06OF |
| TS08OD06OF | 1/2" | TN06OF |
| TS08OD08OF | 1/2" | TN08OF |
| TS08OD10OF | 1/2" | TN10OF |
| TS08OD12OF | 1/2" | TN12OF |
| TS10OD10OF | 5/8" | TN10OF |
| TS12OD12OF | 3/4" | TN12OF |
| TS12OD16OF | 3/4" | TN16OF |
| TS16OD16OF | 1" | TN16OF |
| TS16OD20OF | 1" | TN20OF |
| TS20OD20OF | 1 1/4" | TN20OF |
| USE WITH TN.. OF NUT | | |

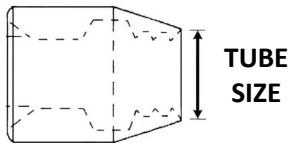
TUBE FITTINGS

JIC VERSIL FLARE NUT AEROQUIP



| PART NUMBER | THREAD T1 JIC | TUBE SIZE |
|---|------------------|-----------|
| FC2875-04S | 7/16" | 1/4" |
| FC2875-05S | 1/2" | 5/16" |
| FC2875-06S | 9/16" | 3/8" |
| FC2875-08S | 3/4" | 1/2" |
| FC2875-10S | 7/8" | 5/8" |
| FC2875-12S | 1 1/16" | 3/4" |
| FC2875-16S | 1 5/16" | 1" |
| FC2875-20S | 1 5/8" | 1 1/4" |
| FC2875-24S | 1 7/8" | 1 1/2" |
| FLARELESS CONNECTION. USE WITH FF9605 SLEEVE | | |

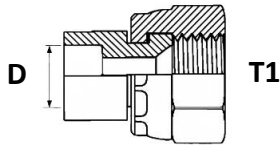
VERSIL FLARE FERRULE AEROQUIP



| PART NUMBER | TUBE SIZE | USE WITH NUT |
|-------------|-----------|--------------|
| FF9605-04S | 1/4" | FC2875-04S |
| FF9605-05S | 5/16" | FC2875-05S |
| FF9605-06S | 3/8" | FC2875-06S |
| FF9605-08S | 1/2" | FC2875-08S |
| FF9605-10S | 5/8" | FC2875-10S |
| FF9605-12S | 3/4" | FC2875-12S |
| FF9605-16S | 1" | FC2875-16S |
| FF9605-20S | 1 1/4" | FC2875-20S |
| FF9605-24S | 1 1/2" | FC2875-24S |

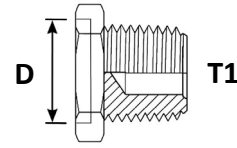
WELD ON

BSPP FEMALE SWIVEL WELD ON



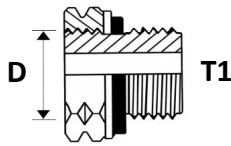
| PART NUMBER | TUBE SIZE | THREAD T1 BSPP |
|-------------|-----------|----------------|
| W04OD04BF | 1/4" | 1/4" |
| W06OD06BF | 3/8" | 3/8" |
| W08OD08BF | 1/2" | 1/2" |
| W12OD12BF | 3/4" | 3/4" |
| W16OD16BF | 1" | 1" |
| W20OD20BF | 1 1/4" | 1 1/4" |
| W24OD24BF | 1 1/2" | 1 1/2" |
| W32OD32BF | 2" | 2" |

BSPT MALE WELD ON



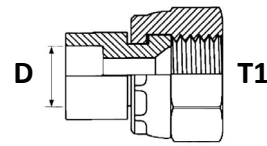
| PART NUMBER | TUBE SIZE | THREAD T1 BSPT |
|-------------|-----------|----------------|
| W04OD04BT | 1/4" | 1/4" |
| W06OD06BT | 3/8" | 3/8" |
| W08OD08BT | 1/2" | 1/2" |
| W12OD12BT | 3/4" | 3/4" |
| W16OD16BT | 1" | 1" |
| W20OD20BT | 1 1/4" | 1 1/4" |
| W24OD24BT | 1 1/2" | 1 1/2" |
| W32OD32BT | 2" | 2" |

BSPP MALE WELD ON



| PART NUMBER | TUBE SIZE | THREAD T1 BSPP |
|-------------|-----------|----------------|
| W06OD06BP | 3/8" | 3/8" |
| W08OD08BP | 1/2" | 1/2" |
| W12OD12BP | 3/4" | 3/4" |
| W16OD16BP | 1" | 1" |
| W20OD20BP | 1 1/4" | 1 1/4" |
| W24OD24BP | 1 1/2" | 1 1/2" |
| W32OD32BP | 2" | 2" |

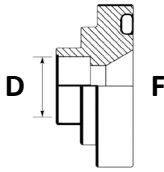
JIC FEMALE SWIVEL WELD ON



| PART NUMBER | TUBE SIZE | THREAD T1 JIC |
|-------------|-----------|---------------|
| W04OD04FJ | 1/4" | 7/16" |
| W06OD06FJ | 3/8" | 9/16" |
| W08OD08FJ | 1/2" | 3/4" |
| W10OD10FJ | 5/8" | 7/8" |
| W12OD12FJ | 3/4" | 1 1/16" |
| W16OD16FJ | 1" | 1 5/16" |
| W20OD20FJ | 1 1/4" | 1 5/8" |
| W24OD24FJ | 1 1/2" | 1 7/8" |
| W32OD32FJ | 2" | 2 1/2" |

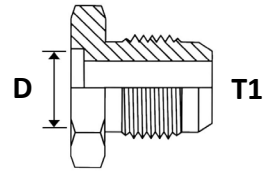
WELD ONS

FLANGE CODE 61 WELD ON



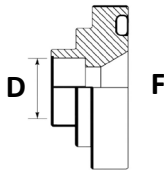
| PART NUMBER | TUBE SIZE | NOM. FLANGE SIZE |
|-------------|-----------|------------------|
| W08OD08FL | 1/2" | 1/2" |
| W12OD12FL | 3/4" | 3/4" |
| W16OD16FL | 1" | 1" |
| W20OD16FL | 1 1/4" | 1" |
| W20OD20FL | 1 1/4" | 1 1/4" |
| W24OD24FL | 1 1/2" | 1 1/2" |
| W32OD32FL | 2" | 2" |
| W32OD40FL | 2" | 2 1/2" |

JIC MALE WELD ON



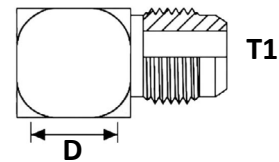
| PART NUMBER | TUBE SIZE | THREAD T1 JIC |
|-------------|-----------|---------------|
| W04OD04MJ | 1/4" | 7/16" |
| W05OD05MJ | 5/16" | 1/2" |
| W06OD06MJ | 3/8" | 9/16" |
| W08OD08MJ | 1/2" | 3/4" |
| W10OD10MJ | 5/8" | 7/8" |
| W12OD12MJ | 3/4" | 1 1/16" |
| W16OD16MJ | 1" | 1 5/16" |
| W20OD20MJ | 1 1/4" | 1 5/8" |
| W24OD24MJ | 1 1/2" | 1 7/8" |
| W32OD32MJ | 2" | 2 1/2" |

FLANGE CODE 62 WELD ON



| PART NUMBER | TUBE SIZE | NOM. FLANGE SIZE |
|-------------|-----------|------------------|
| W12OD12FH | 3/4" | 1 5/8" |
| W12OD16FH | 3/4" | 1 7/8" |
| W16OD16FH | 1" | 1 7/8" |
| W16OD20FH | 1" | 2 1/8" |
| W20OD20FH | 1 1/4" | 2 1/8" |
| W24OD24FH | 1 1/2" | 2 1/2" |
| W32OD32FH | 2" | 3 1/8" |

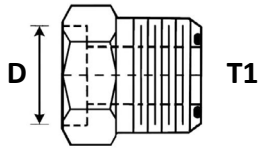
JIC MALE 90° ELBOW WELD ON



| PART NUMBER | TUBE SIZE | THREAD T1 JIC |
|--------------|-----------|---------------|
| W04OD04MJ90S | 1/4" | 7/16" |
| W06OD06MJ90S | 3/8" | 9/16" |
| W08OD08MJ90S | 1/2" | 3/4" |
| W10OD10MJ90S | 5/8" | 7/8" |
| W12OD12MJ90S | 3/4" | 1 1/16" |
| W16OD16MJ90S | 1" | 1 5/16" |

WELD ONS

ORFS MALE WELD ON



| PART NUMBER | TUBE SIZE | THREAD T1 ORFS |
|-------------|-----------|----------------|
| W04OD04OM | 1/4" | 9/16" |
| W06OD06OM | 3/8" | 11/16" |
| W08OD08OM | 1/2" | 13/16" |
| W10OD10OM | 5/8" | 1" |
| W12OD12OM | 3/4" | 1 3/16" |
| W16OD16OM | 1" | 1 7/16" |
| W20OD20OM | 1 1/4" | 1 11/16" |

CDS HYDRAULIC TUBE



COLD DRAWN SEAMLESS HYDRAULIC TUBE
ONLY SOLD IN 6 METRE LENGTHS
Design Factor on recommended Max Working
Pressure is based on 4:1 Safety Margins

TUBE – STEEL - IMPERIAL SIZES CARBON STEEL TUBING, ZINC PLATED

| PART NUMBER | TUBE OD INCH | TUBE OD MM | DESCRIPTION | MAX WORK. PRESSURE BAR |
|---------------|--------------|------------|---|------------------------|
| CDS04-0.91-ZP | 1/4" | 6.35MM | TUBE 1/4" X 0.91MM (20 SWG) ZINC PLATED | 404 |
| CDS06-1.22-ZP | 3/8" | 9.53MM | TUBE 3/8" X 1.22MM (18 SWG) ZINC PLATED | 361 |
| CDS06-1.63-ZP | 3/8" | 9.53MM | TUBE 3/8" X 1.63MM (16 SWG) ZINC PLATED | 482 |
| CDS08-1.22-ZP | 1/2" | 12.70MM | TUBE 1/2" X 1.22MM (18 SWG) ZINC PLATED | 271 |
| CDS08-1.63-ZP | 1/2" | 12.70MM | TUBE 1/2" X 1.63MM (16 SWG) ZINC PLATED | 362 |
| CDS10-1.22-ZP | 5/8" | 15.88MM | TUBE 5/8" X 1.22MM (18 SWG) ZINC PLATED | 218 |
| CDS10-1.63-ZP | 5/8" | 15.88MM | TUBE 5/8" X 1.63MM (16 SWG) ZINC PLATED | 291 |
| CDS10-2.03-ZP | 5/8" | 15.88MM | TUBE 5/8" X 2.03MM (14 SWG) ZINC PLATED | 362 |
| CDS12-1.63-ZP | 3/4" | 19.05MM | TUBE 3/4" X 1.63MM (16 SWG) ZINC PLATED | 241 |
| CDS12-2.03-ZP | 3/4" | 19.05MM | TUBE 3/4" X 2.03MM (14 SWG) ZINC PLATED | 300 |
| CDS12-2.63-ZP | 3/4" | 19.05MM | TUBE 3/4" X 2.63MM (12 SWG) ZINC PLATED | 391 |
| CDS16-1.63-ZP | 1" | 25.40MM | TUBE 1" X 1.63MM (16 SWG) ZINC PLATED | 181 |
| CDS16-2.03-ZP | 1" | 25.40MM | TUBE 1" X 2.03MM (14 SWG) ZINC PLATED | 225 |
| CDS16-2.64-ZP | 1" | 25.40MM | TUBE 1" X 2.64MM (12 SWG) ZINC PLATED | 293 |
| CDS16-3.25-ZP | 1" | 25.40MM | TUBE 1" X 3.25MM (10 SWG) ZINC PLATED | 361 |
| CDS20-1.63-ZP | 1 1/4" | 31.75MM | TUBE 1 1/4" X 1.63MM (16 SWG) ZINC PLATED | 144 |
| CDS20-2.03-ZP | 1 1/4" | 31.75MM | TUBE 1 1/4" X 2.03MM (14 SWG) ZINC PLATED | 180 |
| CDS20-2.64-ZP | 1 1/4" | 31.75MM | TUBE 1 1/4" X 2.64MM (12 SWG) ZINC PLATED | 240 |
| CDS20-3.25-ZP | 1 1/4" | 31.75MM | TUBE 1 1/4" X 3.25MM (10 SWG) ZINC PLATED | |
| CDS24-3.25-ZP | 1 1/2" | 38.10MM | TUBE 1 1/2" X 3.25MM (10 SWG) ZINC PLATED | 288 |

MATERIAL: E235

TECH. STD.: EN10305-4

CONDITION: COLD DRAWN SEAMLESS

WORKING PRESSURES CALCULATED FOR STRAIGHT LENGTHS @ <120° C

ZINC PLATED FeZn8C CHROMIUM 6 FREE



CDS HYDRAULIC TUBE



COLD DRAWN SEAMLESS HYDRAULIC TUBE
 ONLY SOLD IN 6 METRE LENGTHS
 Design Factor on recommended Max Working
 Pressure is based on 4:1 Safety Margins

TUBE - STAINLESS STEEL - IMPERIAL SIZES
ANNEALED & PICKLED (A&P) FINISH OD TUBE
STAINLESS STEEL ANNEALED & PICKLED, MATT FINISH

| PART NUMBER | TUBE OD INCH | TUBE OD MM | DESCRIPTION | MAX WORK. PRESSURE BAR |
|-------------------|--------------|------------|--|------------------------|
| CDS04-0.035-SS-MF | 1/4" | 6.35MM | TUBE 1/4" OD X 20BWG (0.035WT) S/S A & P | 333 |
| CDS04-0.049-SS-MF | 1/4" | 6.35MM | TUBE 1/4" OD X 18BWG (0.049WT) S/S A & P | 464 |
| CDS06-0.035-SS-MF | 3/8" | 9.53MM | TUBE 3/8" OD X 20BWG (0.035WT) S/S A & P | 222 |
| CDS06-0.049-SS-MF | 3/8" | 9.53MM | TUBE 3/8" OD X 18BWG (0.049WT) S/S A & P | 309 |
| CDS06-0.065-SS-MF | 3/8" | 9.53MM | TUBE 3/8" OD X 16BWG (0.065WT) S/S A & P | 411 |
| CDS08-0.035-SS-MF | 1/2" | 12.70MM | TUBE 1/2" OD X 20BWG (0.035WT) S/S A & P | 166 |
| CDS08-0.049-SS-MF | 1/2" | 12.70MM | TUBE 1/2" OD X 18BWG (0.049WT) S/S A & P | 232 |
| CDS08-0.065-SS-MF | 1/2" | 12.70MM | TUBE 1/2" OD X 16BWG (0.065WT) S/S A & P | 309 |
| CDS10-0.049-SS-MF | 5/8" | 15.88MM | TUBE 5/8" OD X 18BWG (0.049WT) S/S A & P | 186 |
| CDS10-0.065-SS-MF | 5/8" | 15.88MM | TUBE 5/8" OD X 16BWG (0.065WT) S/S A & P | 247 |
| CDS12-0.049-SS-MF | 3/4" | 19.05MM | TUBE 3/4" OD X 18BWG (0.049WT) S/S A & P | 155 |
| CDS12-0.065-SS-MF | 3/4" | 19.05MM | TUBE 3/4" OD X 16BWG (0.065WT) S/S A & P | 206 |
| CDS16-0.065-SS-MF | 1" | 25.40MM | TUBE 1" OD X 16BWG (0.065WT) S/S A & P | 154 |
| CDS16-0.083-SS-MF | 1" | 25.40MM | TUBE 1" OD X 14BWG (0.083WT) S/S A & P | 225 |
| CDS20-0.065-SS-MF | 1 1/4" | 31.75MM | TUBE 1 1/4" OD X 16BWG (0.065WT) S/S A & P | |
| CDS20-0.128-SS-MF | 1 1/4" | 31.75MM | TUBE 1 1/4" OD X 10BWG (0.128WT) S/S A & P | 262 |

A & P = ANNEALED AND PICKLED
 MATERIAL: AUSTENITIC STAINLESS STEEL 316/316L
 TECHNICAL STANDARDS: ASTM A213A/A269
 CONDITION: COLD DRAWN SEAMLESS
 WORKING PRESSURES CALCULATED FOR STRAIGHT LENGTHS @ 50° C

CDS HYDRAULIC TUBE



COLD DRAWN SEAMLESS HYDRAULIC TUBE
ONLY SOLD IN 6 METRE LENGTHS
Design Factor on recommended Max Working
Pressure is based on 4:1 Safety Margins

TUBE - STAINLESS STEEL - IMPERIAL SIZES

BRIGHT FINISH IMPERIAL OD TUBE

STAINLESS STEEL, BRIGHT FINISH TUBE

| PART NUMBER | TUBE OD INCH | TUBE OD MM | DESCRIPTION | MAX WORK. PRESSURE BAR |
|-------------------|--------------|------------|--|------------------------|
| CDS04-0.035-SS-BR | 1/4" | 6.35MM | TUBE 1/4" OD X 20 BWG (0.035WT) S/S BR | 333 |
| CDS04-0.049-SS-BR | 1/4" | 6.35MM | TUBE 1/4" OD X 18 BWG (0.049WT) S/S BR | 464 |
| CDS04-0.065-SS-BR | 1/4" | 6.35MM | TUBE 1/4" OD X 16 BWG (0.065WT) S/S BR | 617 |
| CDS06-0.035-SS-BR | 3/8" | 9.53MM | TUBE 3/8" OD X 20 BWG (0.035WT) S/S BR | 222 |
| CDS06-0.049-SS-BR | 3/8" | 9.53MM | TUBE 3/8" OD X 18 BWG (0.049WT) S/S BR | 309 |
| CDS06-0.065-SS-BR | 3/8" | 9.53MM | TUBE 3/8" OD X 16 BWG (0.065WT) S/S BR | 411 |
| CDS08-0.035-SS-BR | 1/2" | 12.70MM | TUBE 1/2" OD X 20 BWG (0.035WT) S/S BR | 166 |
| CDS08-0.049-SS-BR | 1/2" | 12.70MM | TUBE 1/2" OD X 18 BWG (0.049WT) S/S BR | 232 |
| CDS08-0.065-SS-BR | 1/2" | 12.70MM | TUBE 1/2" OD X 16 BWG (0.065WT) S/S BR | 309 |
| CDS10-0.049-SS-BR | 5/8" | 15.88MM | TUBE 5/8" OD X 18 BWG (0.049WT) S/S BR | 186 |
| CDS10-0.065-SS-BR | 5/8" | 15.88MM | TUBE 5/8" OD X 16 BWG (0.065WT) S/S BR | 247 |
| CDS12-0.049-SS-BR | 3/4" | 19.05MM | TUBE 3/4" OD X 18 BWG (0.049WT) S/S BR | 155 |
| CDS12-0.065-SS-BR | 3/4" | 19.05MM | TUBE 3/4" OD X 16 BWG (0.065WT) S/S BR | 206 |
| CDS12-0.083-SS-BR | 3/4" | 19.05MM | TUBE 3/4" OD X 14 BWG (0.083WT) S/S BR | 263 |
| CDS16-0.065-SS-BR | 1" | 25.40MM | TUBE 1" OD X 16 BWG (0.065WT) S/S BR | 154 |
| CDS16-0.083-SS-BR | 1" | 25.40MM | TUBE 1" OD X 14 BWG (0.083WT) S/S BR | 225 |
| CDS16-0.095-SS-BR | 1" | 25.40MM | TUBE 1" OD X 13 BWG (0.095WT) S/S BR | |

MATERIAL: AUSTENITIC STAINLESS STEEL 316/316L

TECH. STD.: ASTM A213S/A269

CONDITION: COLD DRAWN SEAMLESS

WORKING PRESSURES CALCULATED FOR STRAIGHT LENGTHS @ 50° C

CDS HYDRAULIC TUBE



COLD DRAWN SEAMLESS HYDRAULIC TUBE
 ONLY SOLD IN 6 METRE LENGTHS
 Design Factor on recommended Max Working
 Pressure is based on 4:1 Safety Margins

TUBE – STEEL - METRIC SIZES CARBON STEEL TUBING, ZINC PLATED

| PART NUMBER | TUBE OD MM | DESCRIPTION | MAX WORK. PRESSURE BAR |
|------------------|------------|-------------------------------|------------------------|
| CDS06MM-1.0MM-ZP | 6MM | TUBE 6MM X 1.0MM ZINC PLATED | 444 |
| CDS08MM-1.0MM-ZP | 8MM | TUBE 8MM X 1.0MM ZINC PLATED | 333 |
| CDS08MM-1.5MM-ZP | 8MM | TUBE 8MM X 1.5MM ZINC PLATED | 499 |
| CDS10MM-1.0MM-ZP | 10MM | TUBE 10MM X 1.0MM ZINC PLATED | 282 |
| CDS10MM-1.5MM-ZP | 10MM | TUBE 10MM X 1.5MM ZINC PLATED | 423 |
| CDS12MM-1.5MM-ZP | 12MM | TUBE 12MM X 1.5MM ZINC PLATED | 352 |
| CDS12MM-2.0MM-ZP | 12MM | TUBE 12MM X 2.0MM ZINC PLATED | 470 |
| CDS14MM-2.0MM-ZP | 14MM | TUBE 14MM X 2.0MM ZINC PLATED | 403 |
| CDS15MM-1.5MM-ZP | 15MM | TUBE 15MM X 1.5MM ZINC PLATED | 282 |
| CDS16MM-1.5MM-ZP | 16MM | TUBE 16MM X 1.5MM ZINC PLATED | 264 |
| CDS16MM-2.0MM-ZP | 16MM | TUBE 16MM X 2.0MM ZINC PLATED | 352 |
| CDS16MM-2.5MM-ZP | 16MM | TUBE 16MM X 2.5MM ZINC PLATED | 440 |
| CDS18MM-1.5MM-ZP | 18MM | TUBE 18MM X 1.5MM ZINC PLATED | 235 |
| CDS18MM-2.0MM-ZP | 18MM | TUBE 18MM X 2.0MM ZINC PLATED | 313 |
| CDS20MM-2.0MM-ZP | 20MM | TUBE 20MM X 2.0MM ZINC PLATED | 282 |
| CDS20MM-2.5MM-ZP | 20MM | TUBE 20MM X 2.5MM ZINC PLATED | 352 |
| CDS22MM-2.0MM-ZP | 22MM | TUBE 22MM X 2.0MM ZINC PLATED | 256 |
| CDS25MM-2.0MM-ZP | 25MM | TUBE 25MM X 2.0MM ZINC PLATED | 226 |
| CDS25MM-2.5MM-ZP | 25MM | TUBE 25MM X 2.5MM ZINC PLATED | 282 |
| CDS25MM-3.0MM-ZP | 25MM | TUBE 25MM X 3.0MM ZINC PLATED | 338 |
| CDS28MM-2.0MM-ZP | 28MM | TUBE 28MM X 2.0MM ZINC PLATED | 201 |
| CDS30MM-3.0MM-ZP | 30MM | TUBE 30MM X 3.0MM ZINC PLATED | 282 |
| CDS30MM-4.0MM-ZP | 30MM | TUBE 30MM X 4.0MM ZINC PLATED | 376 |
| CDS35MM-2.5MM-ZP | 35MM | TUBE 35MM X 2.5MM ZINC PLATED | 201 |
| CDS35MM-3.0MM-ZP | 35MM | TUBE 35MM X 3.0MM ZINC PLATED | 242 |
| CDS38MM-4.0MM-ZP | 38MM | TUBE 38MM X 4.0MM ZINC PLATED | 297 |
| CDS38MM-5.0MM-ZP | 38MM | TUBE 38MM X 5.0MM ZINC PLATED | 371 |
| CDS42MM-3.0MM-ZP | 42MM | TUBE 42MM X 3.0MM ZINC PLATED | 201 |

MATERIAL: E235
 TECH. STD.: EN10305-4
 CONDITION: COLD DRAWN SEAMLESS
 WORKING PRESSURES CALCULATED FOR STRAIGHT LENGTHS @ <120° C
 ZINC PLATED FeZn8C CHROMIUM 6 FREE

CDS HYDRAULIC TUBE



COLD DRAWN SEAMLESS HYDRAULIC TUBE
 ONLY SOLD IN 6 METRE LENGTHS
 Design Factor on recommended Max Working
 Pressure is based on 4:1 Safety Margins

TUBE - STAINLESS STEEL - METRIC SIZES

BRIGHT FINISH METRIC OD TUBE

STAINLESS STEEL, BRIGHT FINISH TUBE

| PART NUMBER | TUBE OD MM | DESCRIPTION | MAX WORK. PRESSURE BAR |
|---------------------|------------|--------------------------------|------------------------|
| CDS06MM-1.0MM-SS-BR | 6MM | TUBE 6MM X 1.0MM S/S BRIGHT | 374 |
| CDS06MM-1.5MM-SS-BR | 6MM | TUBE 6MM X 1.5MM S/S BRIGHT | 561 |
| CDS08MM-1.0MM-SS-BR | 8MM | TUBE 8MM X 1.0MM S/S BRIGHT | 281 |
| CDS08MM-1.5MM-SS-BR | 8MM | TUBE 8MM X 1.5MM S/S BRIGHT | 421 |
| CDS08MM-2.0MM-SS-BR | 8MM | TUBE 8MM X 2.0MM S/S BRIGHT | 594 |
| CDS10MM-1.0MM-SS-BR | 10MM | TUBE 10MM X 1.0MM S/S BRIGHT | 238 |
| CDS10MM-1.5MM-SS-BR | 10MM | TUBE 10MM X 1.5MM S/S BRIGHT | 356 |
| CDS12MM-1.0MM-SS-BR | 12MM | TUBE 12MM X 1.0MM S/S BRIGHT | 198 |
| CDS12MM-1.5MM-SS-BR | 12MM | TUBE 12MM X 1.5MM S/S BRIGHT | 297 |
| CDS12MM-2.0MM-SS-BR | 12MM | TUBE 12MM X 2.0MM S/S BRIGHT | 396 |
| CDS14MM-2.0MM-SS-BR | 14MM | TUBE 14MM X 2.0MM S/S BRIGHT | 339 |
| CDS15MM-1.5MM-SS-BR | 15MM | TUBE 15MM X 1.5MM S/S BRIGHT | 238 |
| CDS16MM-1.5MM-SS-BR | 16MM | TUBE 16MM X 1.5MM S/S BRIGHT | 223 |
| CDS16MM-2.0MM-SS-BR | 16MM | TUBE 16MM X 2.0MM S/S BRIGHT | 297 |
| CDS16MM-2.5MM-SS-BR | 16MM | TUBE 16MM X 2.5MM S/S BRIGHT | 371 |
| CDS18MM-1.5MM-SS-BR | 18MM | TUBE 18MM X 1.5MM S/S BRIGHT | 198 |
| CDS18MM-2.0MM-SS-BR | 18MM | TUBE 18MM X 2.0MM S/S BRIGHT | 264 |
| CDS20MM-2.0MM-SS-BR | 20MM | TUBE 20MM X 2.0MM S/S BRIGHT | 238 |
| CDS20MM-2.5MM-SS-BR | 20MM | TUBE 20MM X 2.5MM S/S BRIGHT | 297 |
| CDS22MM-2.0MM-SS-BR | 22MM | TUBE 22MM X 2.0MM S/S BRIGHT | 216 |
| CDS25MM-2.5MM-SS-BR | 25MM | TUBE 25MM X 2.5MM S/S BRIGHT | 238 |
| CDS25MM-3.0MM-SS-BR | 25MM | TUBE 25MM X 3.0MM S/S BRIGHT | 285 |
| CDS28MM-2.0MM-SS-BR | 28MM | TUBE 28MM X 2.0MM S/S BRIGHT | 170 |
| CDS30MM-3.0MM-SS-BR | 30MM | TUBE 30MM X 3.0MM S/S BRIGHT | 238 |
| CDS30MM-4.0MM-SS-BR | 30MM | TUBE 30MM X 4.0MM S/S BRIGHT | 317 |
| CDS35MM-2.0MM-SS-BR | 35MM | TUBE 35MM X 2.0MM S/S A&P 3R60 | 136 |
| CDS35MM-3.0MM-SS-BR | 35MM | TUBE 35MM X 3.0MM S/S A&P 3R60 | |
| CDS38MM-3.0MM-SS-BR | 38MM | TUBE 38MM X 3.0MM S/S A&P 3R60 | 188 |
| CDS38MM-5.0MM-SS-BR | 38MM | TUBE 38MM X 5.0MM S/S A&P 3R60 | 313 |
| CDS42MM-3.0MM-SS-BR | 42MM | TUBE 42MM X 3.0MM S/S A&P 3R60 | 170 |

A & P = ANNEALED AND PICKLED

MATERIAL: AUSTENITIC STAINLESS STEEL 316/316L

TECH. STD.: ASTM A213S/A269

CONDITION: COLD DRAWN SEAMLESS

WORKING PRESSURES CALCULATED FOR STRAIGHT LENGTHS @ 50° C

ANNEALED AND PICKLED

CDS HYDRAULIC TUBE



COLD DRAWN SEAMLESS HYDRAULIC TUBE
 ONLY SOLD IN 6 METRE LENGTHS
 Design Factor on recommended Max Working
 Pressure is based on 4:1 Safety Margins

TUBE - STAINLESS STEEL - METRIC SIZES

MATT FINISH METRIC OD TUBE

STAINLESS STEEL, MATT FINISH TUBE

| PART NUMBER | TUBE OD MM | DESCRIPTION | MAX WORK. PRESSURE BAR |
|---------------------|------------|---------------------------|------------------------|
| CDS06MM-1.0MM-SS-MF | 6MM | TUBE 6MM X 1.0MM S/S A&P | 374 |
| CDS08MM-1.0MM-SS-MF | 8MM | TUBE 8MM X 1.0MM S/S A&P | 281 |
| CDS08MM-1.5MM-SS-MF | 8MM | TUBE 8MM X 1.5MM S/S A&P | 421 |
| CDS08MM-2.0MM-SS-MF | 8MM | TUBE 8MM X 2.0MM S/S A&P | 594 |
| CDS10MM-1.0MM-SS-MF | 10MM | TUBE 10MM X 1.0MM S/S A&P | 238 |
| CDS10MM-1.5MM-SS-MF | 10MM | TUBE 10MM X 1.5MM S/S A&P | 356 |
| CDS12MM-1.5MM-SS-MF | 12MM | TUBE 12MM X 1.5MM S/S A&P | 297 |
| CDS12MM-2.0MM-SS-MF | 12MM | TUBE 12MM X 2.0MM S/S A&P | 396 |
| CDS14MM-2.0MM-SS-MF | 14MM | TUBE 14MM X 2.0MM S/S A&P | 339 |
| CDS15MM-1.5MM-SS-MF | 15MM | TUBE 15MM X 1.5MM S/S A&P | 238 |
| CDS16MM-1.5MM-SS-MF | 16MM | TUBE 16MM X 1.5MM S/S A&P | 223 |
| CDS16MM-2.0MM-SS-MF | 16MM | TUBE 16MM X 2.0MM S/S A&P | 297 |
| CDS16MM-2.5MM-SS-MF | 16MM | TUBE 16MM X 2.5MM S/S A&P | 371 |
| CDS18MM-1.5MM-SS-MF | 18MM | TUBE 18MM X 1.5MM S/S A&P | 198 |
| CDS20MM-2.0MM-SS-MF | 20MM | TUBE 20MM X 2.0MM S/S A&P | 238 |
| CDS20MM-2.5MM-SS-MF | 20MM | TUBE 20MM X 2.5MM S/S A&P | 297 |
| CDS22MM-2.0MM-SS-MF | 22MM | TUBE 22MM X 2.0MM S/S A&P | 216 |
| CDS25MM-2.5MM-SS-MF | 25MM | TUBE 25MM X 2.5MM S/S A&P | 238 |
| CDS25MM-3.0MM-SS-MF | 25MM | TUBE 25MM X 3.0MM S/S A&P | 285 |
| CDS30MM-3.0MM-SS-MF | 30MM | TUBE 30MM X 3.0MM S/S A&P | 238 |
| CDS30MM-4.0MM-SS-MF | 30MM | TUBE 30MM X 4.0MM S/S A&P | 317 |
| CDS42MM-3.0MM-SS-MF | 42MM | TUBE 42MM X 3.0MM S/S A&P | 170 |

MATERIAL: AUSTENITIC STAINLESS STEEL 316/316L

TECH. STD.: ASTM A213S/A269

CONDITION: COLD DRAWN SEAMLESS

WORKING PRESSURES CALCULATED FOR STRAIGHT LENGTHS @ 50° C

NOTE: METRIC & COMPRESSION FITTINGS AVAILABLE, PLEASE ASK OUR FRIENDLY STAFF



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