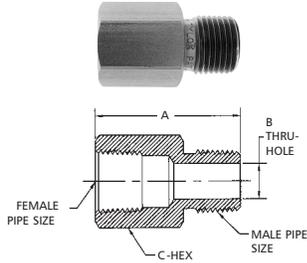


Tylok

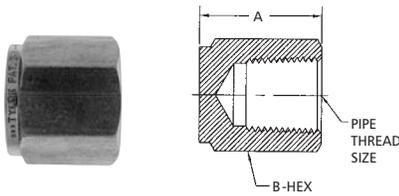
Tylok Pipe Fittings

FEMALE TO MALE ADAPTER



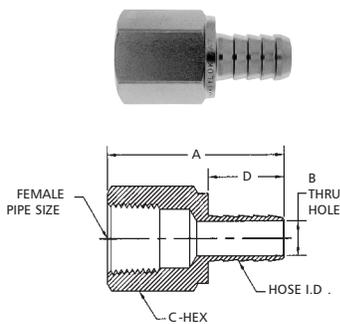
| Part # | Female Pipe Size | Male Pipe Size | A | B Thru-Hole | C-Hex |
|----------|------------------|----------------|-------|-------------|--------|
| 1-1 FMA | 1/16 | 1/16 | 1.000 | .125 | 7/16 |
| 2-1 FMA | 1/8 | 1/8 | 1.062 | .187 | 9/16 |
| 4-1 FMA | 1/4 | 1/4 | 1.375 | .281 | 3/4 |
| 6-1 FMA | 3/8 | 3/8 | 1.562 | .375 | 7/8 |
| 8-1 FMA | 1/2 | 1/2 | 1.906 | .468 | 1-1/16 |
| 12-1 FMA | 3/4 | 3/4 | 1.937 | .625 | 1-1/4 |
| 16-1 FMA | 1 | 1 | 2.281 | .875 | 1-5/8 |

FEMALE PIPE CAP



| Part # | Pipe Thread Size | A | B-Hex |
|----------|------------------|-------|--------|
| 1-1 FPC | 1/16 | .500 | 7/16 |
| 2-1 FPC | 1/8 | .750 | 9/16 |
| 4-1 FPC | 1/4 | .906 | 3/4 |
| 6-1 FPC | 3/8 | 1.031 | 7/8 |
| 8-1 FPC | 1/2 | 1.343 | 1-1/16 |
| 12-1 FPC | 3/4 | 1.437 | 1-1/4 |
| 16-1 FPC | 1 | 1.625 | 1-5/8 |

FEMALE PIPE HOSE CONNECTOR



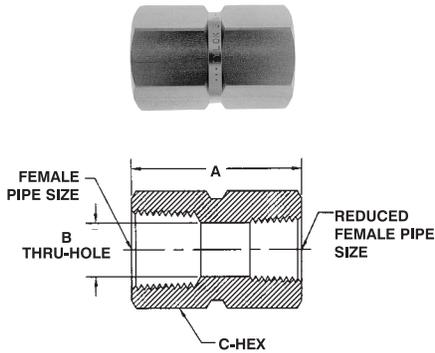
| Part # | Female Pipe Size | Hose I.D. | A | B Thru-Hole | C-Hex | D |
|-------------|------------------|-----------|-------|-------------|--------|------|
| 2-1FPHC-2 | 1/8 | 1/8 | 1.187 | .093 | 9/16 | .422 |
| 2-1FPHC-3 | 1/8 | 3/16 | 1.344 | .125 | 9/16 | .590 |
| 2-1FPHC-4 | 1/8 | 1/4 | 1.500 | .187 | 9/16 | .790 |
| 4-1FPHC-2 | 1/4 | 1/8 | 1.312 | .093 | 3/4 | .422 |
| 4-1FPHC-3 | 1/4 | 3/16 | 1.465 | .125 | 3/4 | .590 |
| 4-1FPHC-4 | 1/4 | 1/4 | 1.687 | .187 | 3/4 | .790 |
| 4-1FPHC-6 | 1/4 | 3/8 | 1.781 | .281 | 3/4 | .890 |
| 4-1FPHC-8 | 1/4 | 1/2 | 1.781 | .406 | 3/4 | .890 |
| 6-1FPHC-4 | 3/8 | 1/4 | 1.718 | .187 | 7/8 | .790 |
| 6-1FPHC-6 | 3/8 | 3/8 | 1.812 | .281 | 7/8 | .890 |
| 6-1FPHC-8 | 3/8 | 1/2 | 1.812 | .406 | 7/8 | .890 |
| 8-1FPHC-6 | 1/2 | 3/8 | 2.125 | .281 | 1-1/16 | .890 |
| 8-1FPHC-8 | 1/2 | 1/2 | 2.078 | .406 | 1-1/16 | .890 |
| 8-1FPHC-12 | 1/2 | 3/4 | 2.125 | .656 | 1-1/16 | .890 |
| 12-1FPHC-8 | 3/4 | 1/2 | 2.187 | .406 | 1-1/4 | .890 |
| 12-1FPHC-12 | 3/4 | 3/4 | 2.187 | .656 | 1-1/4 | .890 |
| 16-1FPHC-16 | 1 | 1 | 2.312 | .906 | 1-5/8 | .890 |

Instrumentation



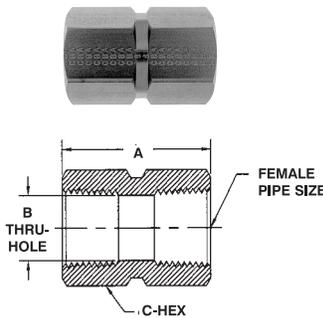
Tylok

FEMALE PIPE REDUCER UNION



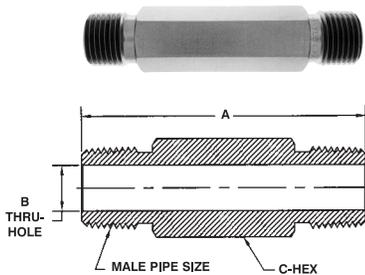
| Part # | Female Pipe Size | Reduced Female Pipe Size | A | B Thru-Hole | C-Hex |
|-------------|------------------|--------------------------|-------|-------------|--------|
| 2-1FPRU-1 | 1/8 | 1/16 | 1.062 | .234 | 9/16 |
| 4-1FPRU-1 | 1/4 | 1/16 | 1.218 | .234 | 3/4 |
| 4-1 FPRU-2 | 1/4 | 1/8 | 1.218 | .328 | 3/4 |
| 6-1FPRU-1 | 3/8 | 1/16 | 1.312 | .234 | 7/8 |
| 6-1 FPRU-2 | 3/8 | 1/8 | 1.312 | .328 | 7/8 |
| 6-1 FPRU-4 | 3/8 | 1/4 | 1.375 | .421 | 7/8 |
| 8-1 FPRU-2 | 1/2 | 1/8 | 1.562 | .328 | 1-1/16 |
| 8-1 FPRU-4 | 1/2 | 1/4 | 1.750 | .421 | 1-1/16 |
| 8-1FPRU-6 | 1/2 | 3/8 | 1.781 | .562 | 1-1/16 |
| 12-1 FPRU-2 | 3/4 | 1/8 | 1.718 | .328 | 1-1/4 |
| 12-1 FPRU-4 | 3/4 | 1/4 | 1.812 | .421 | 1-1/4 |
| 12-1FPRU-6 | 3/4 | 3/8 | 1.843 | .562 | 1-1/4 |
| 12-1FPRU-8 | 3/4 | 1/2 | 2.062 | .687 | 1-1/4 |
| 16-1 FPRU-2 | 1 | 1/8 | 1.843 | .328 | 1-5/8 |
| 16-1 FPRU-4 | 1 | 1/4 | 2.000 | .421 | 1-5/8 |
| 16-1FPRU-6 | 1 | 3/8 | 2.062 | .562 | 1-5/8 |
| 16-1FPRU-8 | 1 | 1/2 | 2.187 | .687 | 1-5/8 |
| 16-1FPRU-12 | 1 | 3/4 | 2.250 | .890 | 1-5/8 |

FEMALE PIPE UNION



| Part # | Female Pipe Size | A | B Thru-Hole | C-Hex |
|----------|------------------|-------|-------------|--------|
| 1-1 FPU | 1/16 | .812 | .234 | 7/16 |
| 2-1 FPU | 1/8 | .812 | .328 | 9/16 |
| 4-1 FPU | 1/4 | 1.187 | .421 | 3/4 |
| 6-1 FPU | 3/8 | 1.312 | .562 | 7/8 |
| 8-1 FPU | 1/2 | 1.625 | .687 | 1-1/16 |
| 12-1 FPU | 3/4 | 1.687 | .890 | 1-1/4 |
| 16-1 FPU | 1 | 2.000 | 1.125 | 1-5/8 |

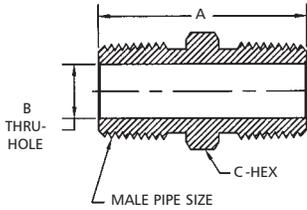
HEX LONG NIPPLE



| Part # | Male Pipe Size | A | B Thru-Hole | C-Hex |
|-----------|----------------|----------------|-------------|--------|
| 1-1HLN-* | 1/16 | *Made To Order | .125 | 3/8 |
| 2-1HLN-* | 1/8 | To Order | .187 | 7/16 |
| 4-1HLN-* | 1/4 | Specify Size | .281 | 9/16 |
| 6-1HLN-* | 3/8 | | .375 | 11/16 |
| 8-1HLN-* | 1/2 | | .468 | 7/8 |
| 12-1HLN-* | 3/4 | | .625 | 1-1/16 |
| 16-1HLN-* | 1 | | .875 | 1-3/8 |

Instrumentation

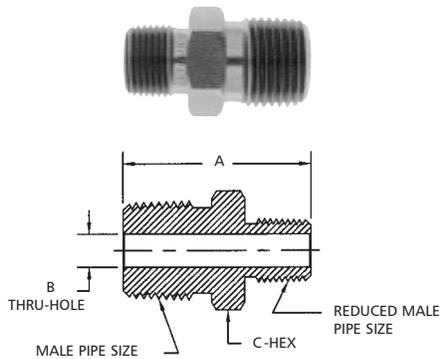
Tylok



HEX NIPPLE

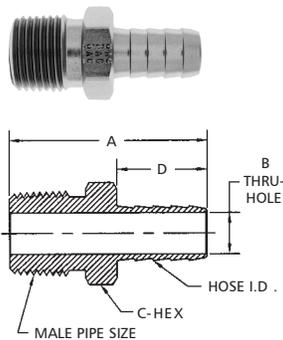
| Part # | Male Pipe Size | A | B Thru-Hole | C-Hex |
|--------|----------------|-------|-------------|--------|
| 1-1HN | 1/16 | .937 | .125 | 3/8 |
| 2-1 HN | 1/8 | 1.000 | .187 | 7/16 |
| 4-1 HN | 1/4 | 1.375 | .281 | 9/16 |
| 6-1 HN | 3/8 | 1.406 | .375 | 11/16 |
| 8-1 HN | 1/2 | 1.781 | .468 | 7/8 |
| 12-1HN | 3/4 | 1.812 | .625 | 1-1/16 |
| 16-1HN | 1 | 2.281 | .875 | 1-3/8 |

HEX REDUCING NIPPLE



| Part # | Male Pipe Size | Reduced Male Pipe Size | A | B Thru-Hole | C-Hex |
|------------|----------------|------------------------|-------|-------------|--------|
| 2-1HRN-1 | 1/8 | 1/16 | 1.000 | .125 | 7/16 |
| 4-1HRN-1 | 1/4 | 1/16 | 1.187 | .125 | 9/16 |
| 4-1HRN-2 | 1/4 | 1/8 | 1.187 | .187 | 9/16 |
| 6-1HRN-1 | 3/8 | 1/16 | 1.218 | .125 | 11/16 |
| 6-1HRN-2 | 3/8 | 1/8 | 1.218 | .187 | 11/16 |
| 6-1HRN-4 | 3/8 | 1/4 | 1.406 | .281 | 11/16 |
| 8-1HRN-2 | 1/2 | 1/8 | 1.406 | .187 | 7/8 |
| 8-1HRN-4 | 1/2 | 1/4 | 1.593 | .281 | 7/8 |
| 8-1HRN-6 | 1/2 | 3/8 | 1.625 | .375 | 7/8 |
| 12-1HRN-2 | 3/4 | 1/8 | 1.437 | .187 | 1-1/16 |
| 12-1HRN-4 | 3/4 | 1/4 | 1.625 | .281 | 1-1/16 |
| 12-1HRN-6 | 3/4 | 3/8 | 1.625 | .375 | 1-1/16 |
| 12-1HRN-8 | 3/4 | 1/2 | 1.812 | .468 | 1-1/16 |
| 16-1HRN-2 | 1 | 1/8 | 1.718 | .187 | 1-3/8 |
| 16-1HRN-4 | 1 | 1/4 | 1.906 | .281 | 1-3/8 |
| 16-1HRN-6 | 1 | 3/8 | 1.906 | .375 | 1-3/8 |
| 16-1HRN-8 | 1 | 1/2 | 2.093 | .468 | 1-3/8 |
| 16-1HRN-12 | 1 | 3/4 | 2.093 | .625 | 1-3/8 |

MALE PIPE HOSE CONNECTOR

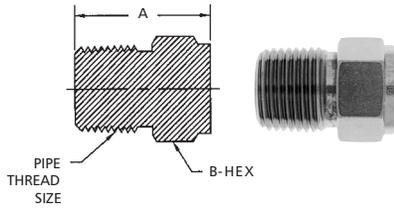


| Part # | Female Pipe Size | Hose I.D. | A | B Thru-Hole | C-Hex | D |
|-------------|------------------|-----------|-------|-------------|--------|------|
| 2-1MPHC-2 | 1/8 | 1/8 | 1.062 | .093 | 7/16 | .422 |
| 2-1MPHC-3 | 1/8 | 3/16 | 1.187 | .125 | 7/16 | .590 |
| 2-1MPHC-4 | 1/8 | 1/4 | 1.462 | .187 | 7/16 | .790 |
| 4-1MPHC-2 | 1/4 | 1/8 | 1.234 | .093 | 9/16 | .422 |
| 4-1MPHC-3 | 1/4 | 3/16 | 1.406 | .125 | 9/16 | .590 |
| 4-1MPHC-4 | 1/4 | 1/4 | 1.609 | .187 | 9/16 | .790 |
| 4-1MPHC-6 | 1/4 | 3/8 | 1.718 | .281 | 9/16 | .890 |
| 4-1MPHC-8 | 1/4 | 1/2 | 1.718 | .281 | 9/16 | .890 |
| 6-1MPHC-4 | 3/8 | 1/4 | 1.609 | .187 | 11/16 | .790 |
| 6-1MPHC-6 | 3/8 | 3/8 | 1.781 | .281 | 11/16 | .890 |
| 6-1MPHC-8 | 3/8 | 1/2 | 1.781 | .375 | 11/16 | .890 |
| 8-1MPHC-6 | 1/2 | 3/8 | 1.953 | .281 | 7/8 | .890 |
| 8-1MPHC-8 | 1/2 | 1/2 | 1.953 | .406 | 7/8 | .890 |
| 8-1MPHC-12 | 1/2 | 3/4 | 1.968 | .468 | 7/8 | .890 |
| 12-1MPHC-8 | 3/4 | 1/2 | 1.968 | .406 | 1-1/16 | .890 |
| 12-1MPHC-12 | 3/4 | 3/4 | 1.968 | .625 | 1-1/16 | .890 |
| 16-1MPHC-16 | 1 | 1 | 2.171 | .875 | 1-3/8 | .890 |

Instrumentation



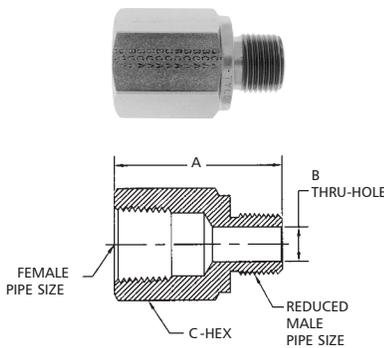
Tylok



MALE PIPE PLUG

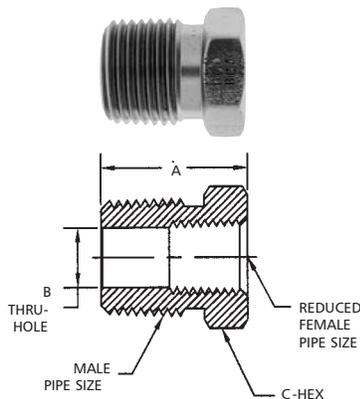
| Part # | Pipe Thread Size | A | B-Hex |
|----------|------------------|-------|--------|
| 1-1MPP | 1/16 | .750 | 3/8 |
| 2-1MPP | 1/8 | .750 | 7/16 |
| 4-1 MPP | 1/4 | 1.000 | 9/16 |
| 6-1 MPP | 3/8 | 1.062 | 11/16 |
| 8-1MPP | 1/2 | 1.312 | 7/8 |
| 12-1MPP | 3/4 | 1.375 | 1-1/16 |
| 16-1 MPP | 1 | 1.687 | 1-3/8 |

REDUCER ADAPTER - FEMALE TO MALE



| Part # | Female Pipe Size | Male Pipe Size | A | B Thru-Hole | C-Hex |
|--------------|------------------|----------------|-------|-------------|--------|
| 2-1 RAFM-1 | 1/8 | 1/16 | 1.093 | .125 | 9/16 |
| 4-1 RAFM-1 | 1/4 | 1/16 | 1.250 | .125 | 3/4 |
| 4-1 RAFM-2 | 1/4 | 1/8 | 1.250 | .187 | 3/4 |
| 6-1 RAFM-1 | 3/8 | 1/16 | 1.437 | .125 | 7/8 |
| 6-1 RAFM-2 | 3/8 | 1/8 | 1.437 | .187 | 7/8 |
| 6-1 RAFM-4 | 3/8 | 1/4 | 1.562 | .281 | 7/8 |
| 8-1 RAFM-2 | 1/2 | 1/8 | 1.687 | .187 | 1-1/16 |
| 8-1 RAFM-4 | 1/2 | 1/4 | 1.812 | .281 | 1-1/16 |
| 8-1 RAFM-6 | 1/2 | 3/8 | 1.812 | .375 | 1-1/16 |
| 12-1 RAFM-2 | 3/4 | 1/8 | 1.812 | .187 | 1-1/4 |
| 12-1 RAFM-4 | 3/4 | 1/4 | 1.968 | .281 | 1-1/4 |
| 12-1 RAFM-6 | 3/4 | 3/8 | 1.968 | .375 | 1-1/4 |
| 12-1RAFM-8 | 3/4 | 1/2 | 2.062 | .468 | 1-1/4 |
| 16-1 RAFM-2 | 1 | 1/8 | 2.000 | .187 | 1-5/8 |
| 16-1 RAFM-4 | 1 | 1/4 | 2.125 | .281 | 1-5/8 |
| 16-1 RAFM-6 | 1 | 3/8 | 2.125 | .375 | 1-5/8 |
| 16-1RAFM-8 | 1 | 1/2 | 2.250 | .468 | 1-5/8 |
| 16-1 RAFM-12 | 1 | 3/4 | 2.250 | .625 | 1-5/8 |

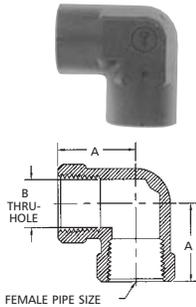
REDUCER BUSHING - MALE TO FEMALE



| Part # | Female Pipe Size | Male Pipe Size | A | B Thru-Hole | C-Hex |
|-------------|------------------|----------------|-------|-------------|--------|
| 2-1RBMF-1 | 1/8 | 1/16 | 1.000 | .187 | 7/16 |
| 4-1RBMF-1 | 1/4 | 1/16 | .812 | .234 | 9/16 |
| 4-1RBMF-2 | 1/4 | 1/8 | 1.000 | .281 | 9/16 |
| 6-1RBMF-1 | 3/8 | 1/16 | .843 | .234 | 11/16 |
| 6-1RBMF-2 | 3/8 | 1/8 | .843 | .328 | 11/16 |
| 6-1RBMF-4 | 3/8 | 1/4 | 1.125 | .375 | 3/4 |
| 8-1RBMF-2 | 1/2 | 1/8 | 1.062 | .328 | 7/8 |
| 8-1RBMF-4 | 1/2 | 1/4 | 1.062 | .421 | 7/8 |
| 8-1RBMF-6 | 1/2 | 3/8 | 1.312 | .468 | 7/8 |
| 12-1RBMF-2 | 3/4 | 1/8 | 1.062 | .328 | 1-1/16 |
| 12-1RBMF-4 | 3/4 | 1/4 | 1.062 | .421 | 1-1/16 |
| 12-1RBMF-6 | 3/4 | 3/8 | 1.062 | .562 | 1-1/16 |
| 12-1RBMF-8 | 3/4 | 1/2 | 1.562 | .625 | 1-1/16 |
| 16-1RBMF-2 | 1 | 1/8 | 1.343 | .328 | 1-3/8 |
| 16-1RBMF-4 | 1 | 1/4 | 1.343 | .421 | 1-3/8 |
| 16-1RBMF-6 | 1 | 3/8 | 1.343 | .562 | 1-3/8 |
| 16-1RBMF-8 | 1 | 1/2 | 1.343 | .687 | 1-3/8 |
| 16-1RBMF-12 | 1 | 3/4 | 1.750 | .875 | 1-3/8 |

Instrumentation

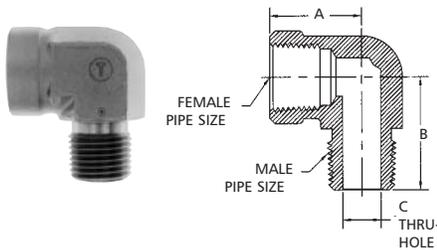
Tylok



FEMALE PIPE ELBOW

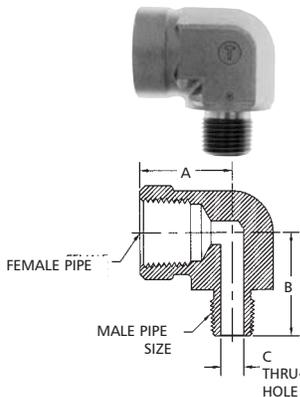
| Part # | Pipe Thread Size | A | B-Hex |
|-----------|------------------|-------|-------|
| 1-2FF-1 | 1/16 | .750 | .234 |
| 2-2FF-2 | 1/8 | .843 | .328 |
| 4-2FF-4 | 1/4 | .968 | .421 |
| 6-2FF-6 | 3/8 | 1.000 | .562 |
| 8-2FF-8 | 1/2 | 1.125 | .687 |
| 12-2FF-12 | 3/4 | 1.437 | .890 |
| 16-2FF-16 | 1 | 1.625 | 1.125 |

FEMALE - MALE PIPE ELBOW



| Part # | Female Pipe Size | A | B Thru-Hole | C-Hex |
|-----------|------------------|-------|-------------|-------|
| 1-2FM-1 | 1/16 | .750 | .718 | .125 |
| 2-2FM-2 | 1/8 | .843 | .843 | .187 |
| 4-2FM-4 | 1/4 | .843 | 1.093 | .281 |
| 6-2FM-6 | 3/8 | 1.000 | 1.125 | .375 |
| 8-2FM-8 | 1/2 | 1.125 | 1.375 | .468 |
| 2-2FM-12 | 3/4 | 1.437 | 1.500 | .625 |
| 16-2FM-16 | 1 | 1.625 | 1.937 | .875 |

FEMALE - MALE REDUCER PIPE ELBOW



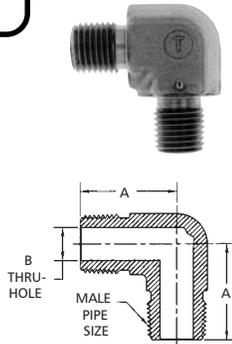
| Part # | Female Pipe Size | Male Pipe Size | A | B Thru-Hole | C-Hex |
|------------|------------------|----------------|-------|-------------|-------|
| 2-2FMR-1 | 1/8 | 1/16 | .750 | .750 | .125 |
| 4-2FMR-1 | 1/4 | 1/16 | .843 | .937 | .125 |
| 4-2FMR-2 | 1/4 | 1/8 | .843 | .937 | .187 |
| 6-2FMR-1 | 3/8 | 1/16 | 1.000 | .937 | .125 |
| 6-2FMR-2 | 3/8 | 1/8 | 1.000 | .937 | .187 |
| 6-2FMR-4 | 3/8 | 1/4 | 1.125 | 1.187 | .281 |
| 8-2FMR-2 | 1/2 | 1/8 | 1.125 | 1.062 | .187 |
| 8-2FMR-4 | 1/2 | 1/4 | 1.125 | 1.250 | .281 |
| 8-2FMR-6 | 1/2 | 3/8 | 1.125 | 1.250 | .375 |
| 12-2FMR-2 | 3/4 | 1/8 | 1.437 | 1.250 | .187 |
| 12-2FMR-4 | 3/4 | 1/4 | 1.437 | 1.375 | .281 |
| 12-2FMR-6 | 3/4 | 3/8 | 1.437 | 1.437 | .375 |
| 12-2FMR-8 | 3/4 | 1/2 | 1.437 | 1.625 | .468 |
| 16-2FMR-2 | 1 | 1/8 | 1.625 | 1.375 | .187 |
| 16-2FMR-4 | 1 | 1/4 | 1.625 | 1.625 | .281 |
| 16-2FMR-6 | 1 | 3/8 | 1.625 | 1.625 | .375 |
| 16-2FMR-8 | 1 | 1/2 | 1.625 | 1.812 | .468 |
| 16-2FMR-12 | 1 | 3/4 | 1.625 | 1.875 | .625 |

Instrumentation



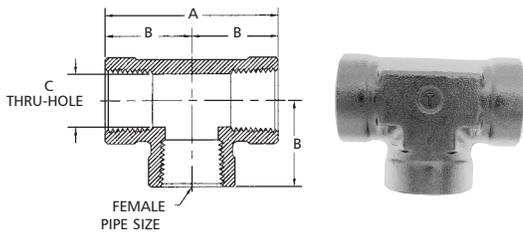
Tylok

MALE PIPE ELBOW



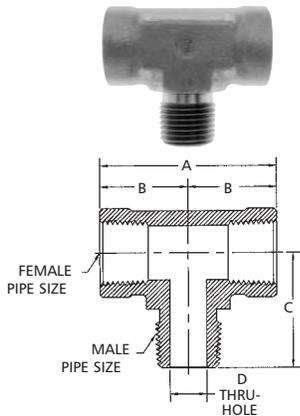
| Part # | Pipe | | A | B-Hex |
|-----------|-------------|--|-------|-------|
| | Thread Size | | | |
| 1-2MM-1 | 1/16 | | .718 | .125 |
| 2-2MM-2 | 1/8 | | .750 | .187 |
| 4-2MM-4 | 1/4 | | 1.000 | .281 |
| 6-2MM-6 | 3/8 | | 1.093 | .375 |
| 8-2MM-8 | 1/2 | | 1.375 | .468 |
| 12-2MM-12 | 3/4 | | 1.500 | .625 |
| 16-2MM-16 | 1 | | 1.875 | .875 |

ALL FEMALE PIPE TEE



| Part # | Female | | A | B Thru-Hole | C-Hex |
|------------|-----------|--|-------|-------------|-------|
| | Pipe Size | | | | |
| 1-3FFF-1 | 1/16 | | 1.500 | .750 | .234 |
| 2-3FFF-2 | 1/8 | | 1.687 | .843 | .328 |
| 4-3FFF-4 | 1/4 | | 1.687 | .843 | .421 |
| 6-3FFF-6 | 3/8 | | 2.000 | 1.000 | .562 |
| 8-3FFF-8 | 1/2 | | 2.250 | 1.125 | .687 |
| 12-3FFF-12 | 3/4 | | 2.625 | 1.312 | .890 |
| 16-3FFF-16 | 1 | | 3.250 | 1.625 | 1.125 |

PIPE TEE - FEMALE - FEMALE - MALE

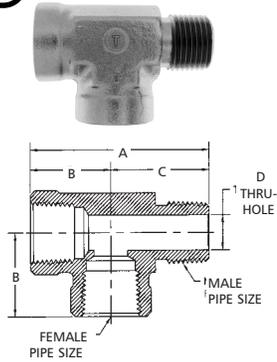


| Part # | Female | | A | B Thru-Hole | C-Hex | |
|------------|-----------|-----------|-------|-------------|-------|------|
| | Pipe Size | Pipe Size | | | | |
| 1-3FFM-1 | 1/16 | | 1.500 | .750 | .718 | .125 |
| 2-3FFM-2 | 1/8 | | 1.687 | .843 | .843 | .187 |
| 4-3FFM-4 | 1/4 | | 1.875 | .937 | 1.000 | .281 |
| 6-3FFM-6 | 3/8 | | 2.000 | 1.000 | 1.125 | .375 |
| 8-3FFM-8 | 1/2 | | 2.250 | 1.125 | 1.375 | .468 |
| 12-3FFM-12 | 3/4 | | 2.750 | 1.375 | 1.625 | .625 |
| 16-3FFM-16 | 1 | | 3.250 | 1.625 | 1.937 | .875 |

Instrumentation

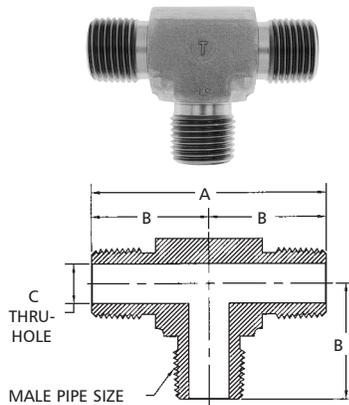
Tylok

PIPE TEE - FEMALE - MALE - FEMALE



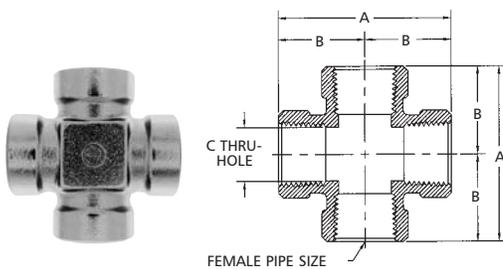
| Part # | Female Pipe Size | Male Pipe Size | A | B Thru-Hole | C-Hex |
|------------|------------------|----------------|-------|-------------|-------|
| 1-3FMF-1 | 1/16 | 1.500 | .750 | .750 | .125 |
| 2-3FMF-2 | 1/8 | 1.687 | .843 | .843 | .187 |
| 4-3FMF-4 | 1/4 | 1.890 | .843 | 1.046 | .281 |
| 6-3FMF-6 | 3/8 | 2.125 | 1.000 | 1.125 | .375 |
| 8-3FMF-8 | 1/2 | 2.500 | 1.125 | 1.375 | .468 |
| 12-3FMF-12 | 3/4 | 2.937 | 1.437 | 1.500 | .625 |
| 16-3FMF-16 | 1 | 3.562 | 1.625 | 1.937 | .875 |

ALL MALE PIPE TEE



| Part # | Female Pipe Size | A | B Thru-Hole | C-Hex |
|------------|------------------|-------|-------------|-------|
| 1-3MMM-1 | 1/16 | 1.437 | .718 | .125 |
| 2-3MMM-2 | 1/8 | 1.437 | .718 | .187 |
| 4-3MMM-4 | 1/4 | 1.875 | .937 | .281 |
| 6-3MMM-6 | 3/8 | 2.000 | 1.000 | .375 |
| 8-3MMM-8 | 1/2 | 2.750 | 1.375 | .468 |
| 12-3MMM-12 | 3/4 | 2.750 | 1.375 | .625 |
| 16-3MMM-16 | 1 | 3.750 | 1.875 | .875 |

FEMALE PIPE CROSS



| Part # | Female Pipe Size | A | B Thru-Hole | C-Hex |
|----------|------------------|-------|-------------|-------|
| 1-4FPCR | 1/16 | 1.250 | .625 | .246 |
| 2-4FPCR | 1/8 | 1.687 | .843 | .328 |
| 4-4FPCR | 1/4 | 1.687 | .843 | .421 |
| 6-4FPCR | 3/8 | 2.125 | 1.062 | .562 |
| 8-4FPCR | 1/2 | 2.250 | 1.125 | .687 |
| 12-4FPCR | 3/4 | 2.875 | 1.437 | .890 |
| 16-4FPCR | 1 | 3.250 | 1.625 | 1.125 |

Instrumentation

USE/APPLICATION

Tylok Pipe Fittings are designed and manufactured for applications in power, processing and instrumentation. In designing a system incorporating pipe fittings, it is the designer's or user's obligation and responsibility to determine the appropriate fittings to be used for each application, and to insure proper installation and maintenance.

DESIGN/FEATURES

Tylok Pipe Fittings are manufactured to the same high quality standards as other Tylok Fittings. Each fitting is thoroughly cleaned to eliminate system contamination and features an attractive surface finish to enhance the appearance of modern scientific instrumentation and equipment.

PIPE THREAD SPECIFICATIONS

Tylok Pipe Fittings are manufactured from materials meeting applicable ASTM or ASME specifications, with pipe threads which meet or exceed ANSI B1.20.1 requirements. Strict quality control procedures are followed throughout production.

Materials: Brass • Steel • 316 Stainless Steel
Aluminum • Other materials available as special order

Suggest Allowable Working Pressures for Male Pipe Threads

| MNPT Size | 316 Stainless Steel PSI Rating | Brass PSI Rating | Steel PSI Rating |
|----------------------|---|-----------------------------|-----------------------------|
| 1/16" | 10,100 | 5,700 | 10,500 |
| 1/8" | 9,200 | 5,300 | 9,800 |
| 1/4" | 7,500 | 4,100 | 8,000 |
| 3/8" | 7,250 | 4,000 | 7,700 |
| 1/2" | 6,900 | 3,900 | 7,300 |
| 3/4" | 6,600 | 3,700 | 7,000 |
| 1" | 5,000 | 2,700 | 5,000 |



Suggest Allowable Working Pressures for Female Pipe Threads

| FNPT Size | 316 Stainless Steel PSI Rating | Brass PSI Rating | Steel PSI Rating |
|----------------------|---|-----------------------------|-----------------------------|
| 1/16" | 6,200 | 3,500 | 6,800 |
| 1/8" | 6,000 | 3,400 | 6,600 |
| 1/4" | 6,100 | 3,300 | 6,500 |
| 3/8" | 5,000 | 2,700 | 5,400 |
| 1/2" | 4,700 | 2,500 | 4,800 |
| 3/4" | 4,300 | 2,400 | 4,600 |
| 1" | 4,100 | 2,300 | 4,500 |

Instrumentation

These charts are to be used as a guide only and are based on normal wall thicknesses, used for the various sizes. These ratings may vary widely from effects such as the proper use of sealants, size of stock, temperature, corrosion factors, etc. Therefore, Tylok International, Inc., assumes no responsibility for its accuracy in any individual design. When using a combination of fittings such as Male Pipe threads with Female Pipe threads, the minimum rating applies.

HEAT TRACEABILITY

Tylok Pipe Fittings can be traced back to the original mill heat from which it was made. Starting with the original billet, the mill creates a certificate which completely describes the chemical and physical makeup. This is useful for providing a method for complete material accountability for the manufacturer and end customer.

TEMPERATURE RATINGS

The standard Tylok Instrumentation Fittings are rated at the following temperatures:

316 Stainless -325°F to 1200°F Brass -40°F to 400°F Steel' -65°F to 400°F Aluminum -40°F to 400°F
(-198°C to 648°C) (-40°C to 204°C) (-54°C to 204°C) (-40°C to 204°C)

Note: Consideration should be given to maximum temperature ratings if fittings are coated or plated.

**Special attention should be considered when selecting coated and/or plated materials such as Steel.*

INSTALLATION INSTRUCTIONS

Pipe thread connections are very common in today's industry. They are relatively easy to work with because of the common sizes and dimensions throughout manufacturing. It is important to use a thread sealant. These products range from pipe "dopes" to teflon tape, all of which can be purchased through your local Tylok Distributor.

