




















HAMMER UNIONS



ZSPEC® Hammer Unions are manufactured from high quality forgings and castings. The figure appropriate materials are selected for each respective figure number. Threaded and Butt Weld end connections are both readily available. Material traceability and MTRS are available on all hammer unions.

| Figure No. | Color Code | | NON-SHOCK COLD WORKING PRESSURE RATING (PSI) | | Nominal Pipe Size (in inches) | | | | | | | | | | | | |
|------------|---|---------------------------|--|-------|-------------------------------|----|-------|------|----|------|----|----|----|----|----|-----|-----|
| | | | STANDARD SERVICE | | | | | | | | | | | | | | |
| | | | NSCWP | TEST | .5" | 1" | 1.25" | 1.5" | 2" | 2.5" | 3" | 4" | 5" | 6" | 8" | 10" | 12" |
| 100 |  | Yellow/Black | 1000 | 1500 | | | | | ● | ● | ● | ● | ● | ● | ● | | |
| 110 |  | Burnt Orange/Burnt Orange | 2500 | 3750 | | | | | ● | | | | | | | | |
| 110 |  | Brown/Brown | 4000 | 6000 | | | | | ● | | ● | | | | | | |
| 200 |  | Gray/Blue | 2000 | 3000 | | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | |
| 201 |  | Gray/Beige | 3000 | 4000 | | | | | ● | ● | | | | | | | |
| 206 |  | Gray/Blue | 2000 | 3000 | | ● | ● | ● | ● | ● | ● | ● | | ● | ● | ● | |
| 206H |  | Gray/Blue | 400 | 600 | | | | | | | | ● | | | | | |
| 207 |  | Gray/Blue | 2000 | 3000 | | | | | ● | | ● | ● | | ● | | | |
| 211 |  | Blue/Gray | 2000 | 3000 | | | | | ● | | ● | | | | | | |
| 300 |  | Light Orange/Gray | 2000 | 3000 | ● | ● | | | ● | | | | | | | | |
| 301 |  | Gray/Gray | 3000 | 4500 | | ● | | | ● | | | | | | | | |
| OCT |  | Gray/Gray | 3000 | 4500 | | ● | | | ● | | | | | | | | |
| 400 |  | Maroon/Black | 4000 | 6000 | | | | | ● | | ● | ● | | | | | ◆ |
| 402 |  | Black/Black | 4000 | 6000 | | | | | ● | | | | | | | | |
| G |  | Silver/Orange | 6000 | 9000 | | | | ● | ● | | | | | | | | |
| 602 |  | Orange/Black | 6000 | 9000 | | ● | | ● | ● | ● | ● | ● | | | | | |
| 1002 |  | Blue/Red | 10000 | 15000 | | ● | | ● | ● | | ● | ● | ◆ | ◆ | | | |
| 1003 |  | Green/Black | 7500 | 11250 | | | | | | | ● | ● | ● | | | | |
| 1502 |  | Red/Blue | 15000 | 22500 | | ● | | ● | ● | ● | ● | ● | ● | | | | |

◆ indicates a reduction in working pressure as listed:

12" Fig 400: NSCWP = 2500 psi (3750 psi test)
5" Fig 1002 Threaded: NSCWP = 5000psi (7500 psi test)

5" Fig 1002 Butt Weld: NSCWP = 7500 psi (11250 psi test)
6" Fig 1002 Butt Weld: NSCWP = 7500 psi (11250 psi test)



WARNINGS ON HAMMER UNIONS AND PRODUCTS THAT HAVE HAMMER UNION END CONNECTIONS

When installing and handling any pressure containing products, personnel must be qualified and properly trained on the safe installation and use of the products. Our products are designed and qualified to meet industry standards and it is the user's responsibility in making the appropriate selection of products through any required design and/or analysis of the user's requirements so that the products will not pose any health or safety hazards. Failure to adhere to the warnings listed on this form may result in personal injury or death.

Never strike, impact, tighten or loosen pressurized unions or connections.

Complete and proper make-up of union components is required to attain rated working pressure.

Always pay special attention during the make-up process to ensure that this is achieved.

Never use products that have been damaged or deteriorated or corroded.

Never exceed the rated working pressure of the union or connection.

Never assemble union components that are not identical in size, figure and pressure rating.

Should leakage be detected, take the appropriate steps to assure that the piping system is completely depressurized and any remaining fluid is removed and properly disposed of, then proceed to remove the affected component(s) from service and permanently dispose of the affected component(s).

For overhead installations, follow safe practices with consideration of the combined weight of all components, piping and contained fluids when sizing the piping supports and/or other necessary infrastructure to support the combined weight.

Standard hammer unions and connections are not prepped for sour gas service. Do not interchange standard and sour gas components. Hammer unions and connections prepped for sour gas service will be marked with "Sour Gas Svc." or "H2S".

When temperatures are below 32F, please use extreme caution when making or breaking union connections as the lower temperatures negatively affect the impact strength of iron and steel.