

ATCR Bimetallic Face-Seal Fittings



| Hardware | | HW Atlas ATCR Mounting Hardware | | | |
|-------------------|-----------------|---------------------------------|-----------------|-----------------|----------------|
| ATCR | Inch | Millimeter | Description | Part No. | |
| Gaskets | 1/4 | 6.4 | Copper | ATCRHW-5010-01 | |
| | 3/8 | 9.5 | Copper | ATCRHW-6010-01 | |
| | 1/2 | 12.7 | Copper | ATCRHW-7010-01 | |
| | 3/4 | 19 | Copper | ATCRHW-8010-01 | |
| | 1 | 25.4 | Copper | ATCRHW-9010-01 | |
| | 1/4 | 6.4 | Nickel | ATCRHW-5010-02 | |
| | 3/8 | 9.5 | Nickel | ATCRHW-6010-02 | |
| | 1/2 | 12.7 | Nickel | ATCRHW-7010-02 | |
| | 3/4 | 19 | Nickel | ATCRHW-8010-02 | |
| | 1 | 25.4 | Nickel | ATCRHW-9010-02 | |
| | 1/4 | 6.4 | Aluminum | ATCRHW-5010-03 | |
| | 3/8 | 9.5 | Aluminum | ATCRHW-6010-03 | |
| | 1/2 | 12.7 | Aluminum | ATCRHW-7010-03 | |
| | 3/4 | 19 | Aluminum | ATCRHW-8010-03 | |
| | 1 | 25.4 | Aluminum | ATCRHW-9010-03 | |
| | Male Nut | 1/4 | 6.4 | Stainless Steel | ATCRHW-5010-04 |
| 3/8 | | 9.5 | Stainless Steel | ATCRHW-6010-04 | |
| 1/2 | | 12.7 | Stainless Steel | ATCRHW-7010-04 | |
| 3/4 | | 19 | Stainless Steel | ATCRHW-8010-04 | |
| 1 | | 25.4 | Stainless Steel | ATCRHW-9010-04 | |
| 1/4 | | 6.4 | Aluminum | ATCRHW-5010-05 | |
| 3/8 | | 9.5 | Aluminum | ATCRHW-6010-05 | |
| 1/2 | | 12.7 | Aluminum | ATCRHW-7010-05 | |
| 3/4 | | 19 | Aluminum | ATCRHW-8010-05 | |
| 1 | | 25.4 | Aluminum | ATCRHW-9010-05 | |
| Female Nut | | 1/4 | 6.4 | Stainless Steel | ATCRHW-5010-06 |
| | | 3/8 | 9.5 | Stainless Steel | ATCRHW-6010-06 |
| | | 1/2 | 12.7 | Stainless Steel | ATCRHW-7010-06 |
| | | 3/4 | 19 | Stainless Steel | ATCRHW-8010-06 |
| | | 1 | 25.4 | Stainless Steel | ATCRHW-9010-06 |
| | | 1/4 | 6.4 | Aluminum | ATCRHW-5010-07 |
| | 3/8 | 9.5 | Aluminum | ATCRHW-6010-07 | |
| | 1/2 | 12.7 | Aluminum | ATCRHW-7010-07 | |
| | 3/4 | 19 | Aluminum | ATCRHW-8010-07 | |
| | 1 | 25.4 | Aluminum | ATCRHW-9010-07 | |



Atlas ATCR Bimetallic Face-Seal Fittings

Top: Atlas ATCR Bimetallic fittings shown with optional male and female nuts. Bottom: Atlas Bimetallic ATCR fittings... socket and chamber-mount types depicted.

Atlas ATCR face-seal fittings have durable stainless steel sealing faces that are explosion bonded to an aluminum body. The bond is extremely rugged and helium leak tested to better than 1×10^{-9} Torr. Standard socket, butt, male and chamber mount weld fitting geometries are available in 1/4, 3/8, 1/2, 3/4 and 1 inch tube diameters. Chamber mount fittings are available in four length configurations suitable for 1/2, 3/4, 1 and 1-1/4 inch chamber wall thicknesses. The Atlas ATCR face-seal fitting allows for robust UHV demountable use of aluminum tubing in cryogenic, physics and semiconductor applications.