

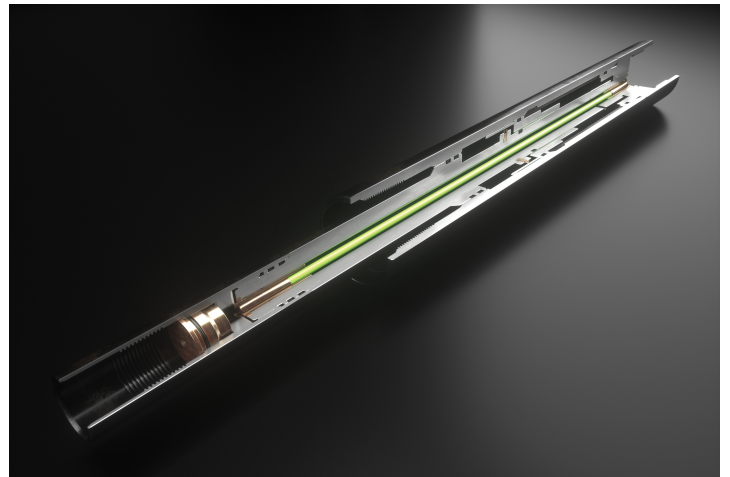
Auto Release - 2.375" - 3.500" Tubing

GEODynamics' Auto-Release Firing Assemblies are designed for perforating the wellbore and simultaneously dropping the guns. The Auto-Release design ensures reliable drop-off of the guns in low hydrostatic well conditions and/or with relatively short gun assemblies. In addition, the unique design allows use of the same Auto-Release Firing Assembly in extreme overbalance conditions.

GEODynamics' Auto-Release Firing Assemblies are compatible with a wide variety of standard Pressure Actuated (FHPA), Pyrotechnic Delay (FHPD), or Safety Mechanical (FHSM) Firing Heads.

FEATURES/BENEFITS

- Immediately releases the guns upon detonation
- Eliminates the need for wireline to release guns
- Does not restrict tubing ID after release
- Can be used for underbalanced or overbalanced perforating
- Automatically opens tubing end for other tools and operations (logging, production testing, treating, etc.)
- Leaves perforations uncovered
- Provides a re-entry guide after release



Auto Release - 2.375" - 3.500" Tubing

SPECIFICATIONS

| Assembly P/N | TC-AR238-0000 | TC-AR288-0000 | TC-AR350-0000 |
|--------------------------|--|----------------------|----------------------|
| Tubing Thread Connection | 2-3/8" EU 8 RD Box | 2-7/8" EU 8 RD Box | 3-1/2" EU 8 RD Box |
| Maximum Diameter | 2.92 in / 74.17 mm | 3.38 in / 85.85 mm | 4.25 in / 108 mm |
| Fishing Diameter | 2.88 in / 73.15 mm | 3.125 in / 79.25 mm | 4.25 in / 108 mm |
| ID After Release | 2.208 in / 56.08 mm | 2.445 in / 62.10 mm | 3.125 in / 79.38 mm |
| Temperature Rating | Determined by explosive package used | | |
| Collapse Pressure | 13,500 psi / 93 MPa | 16,500 psi / 114 MPa | 17,000 psi / 117 MPa |
| Burst Pressure | 20,000 psi / 138 MPa | 20,000 psi / 138 MPa | 20,000 psi / 138 MPa |
| Seal Ratings | 10,000 psi @ 290°F without back-up rings 20,000 psi @ 375°F with PEEK back-up rings | | |
| Maximum Differential | 10,000 psi / 69 MPa | 10,000 psi / 69 MPa | 8,000 psi / 55 MPa |
| Calculated Tensile | 46,000 lbs. minimum | 60,000 lbs. minimum | 115,000 lbs. minimum |

