

MAXR Monobore Anchor with Automatic Release

Provides automatic dropoff immediately after perforating gun perforation

APPLICATIONS

- Permanent completions with tubing-conveyed firing system
- Highly deviated wells
- Monobore completions
- Completions in which the gun string cannot be attached to the tubing

BENEFITS

- Improved perforation cleanup because of quick gun removal
- Prevention of sand packing around guns
- Elimination of postperforation well killing

FEATURES

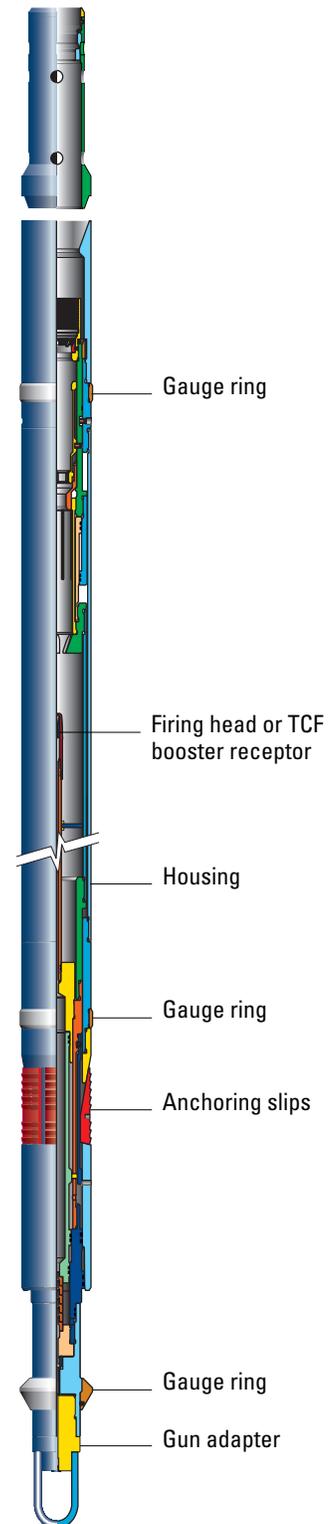
- Reliable, proven, fast-release mechanism
- Reliable, proven, retrievable packer slip design
- Automatic release and drop at the instant of gun detonation
- Emergency mechanical back-up release that activates power slip retraction
- Compatibility with wireline, tubing, drillpipe, or coiled tubing
- Easy access to backup release and firing head
- No workstring manipulation requirement to set or release the assembly
- Compatibility with most Schlumberger firing heads
- Redundant firing head options available both above and below anchor
- No connection to completion tubing
- Fully open and accessible casing after drop

The monobore anchor with automatic release (MAXR), a tool for anchoring perforating guns, provides automatic drop-off at the instant of detonation. The detonation generates a force that retracts the slips and initiates the drop of the entire tool string to the bottom of the well. The force and fast reaction ensure that the gun and associated hardware fall into the rathole and to the bottom of the well before formation sand can cause the guns to stick. After perforation, the casing, or liner, remains unrestricted.

The MAXR is used mainly for monobore completions but can also be used for conventional completions. It is run inhole with wireline or drillpipe and is set with standard setting equipment such as that used for packers and bridge plugs. It can also be used when the perforating guns are run inhole before the completion string is run. The gun and firing head assembly can be run independently of the completion string assembly so that the end of the completion string can be positioned well above the guns, if necessary.

The MAXR has an emergency mechanical backup release that allows the guns to be dropped or brought back to the surface without being detonated. The guns remain attached to the MAXR unless detonation occurs. For example, a shifting tool can be run into the release sleeve of the MAXR to jar the MAXR and drop the string to the bottom of the well. The MAXR can then be retrieved with a fishing tool.

The MAXR fits various casing sizes and can be used with all Schlumberger tubing-conveyed perforating firing guns.



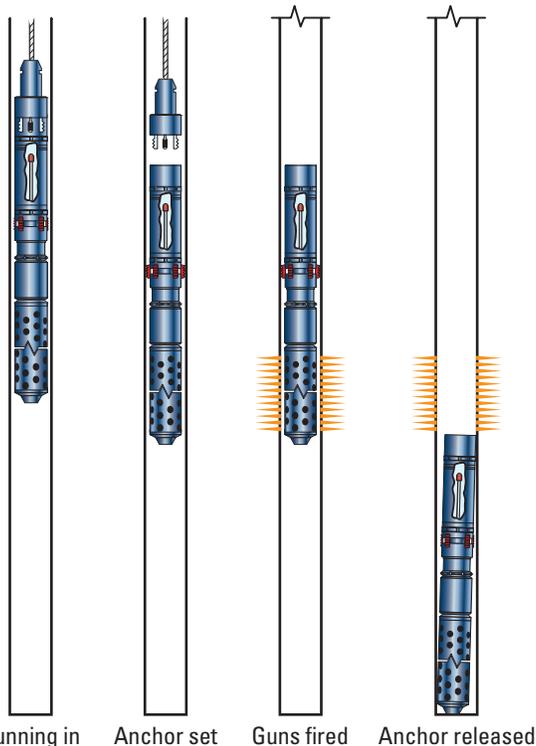
MAXR monobore anchor with automatic release.

MAXR Monobore Anchor with Automatic Release

Specifications

Casing size, in	4½	5	5½	7	7⅝	9⅝
Casing weight range, lbm/ft	12.6–18.8	15–23.2	17–26.0	23–44	29.7–39	29.3–53.5
Casing ID (min. to max.), in [mm]	3.64–3.958 [92.5–100.5]	4.044–4.408 [102.7–112.0]	4.548–4.892 [115.5–124.3]	5.720–6.366 [145.29–161.7]	6.625–6.875 [168.3–174.6]	8.535–9.063 [216.8–230.2]
Tool OD, in [mm]	3.4 [88.9]	3.75–4.1 [95.25–104.1]	4.25 [107.95]	5–5.5 [127–139.7]	5.5 [139.7]	193.54 [7.62]
Gauge ring OD, in [mm]	3.415 [86.7]	3.765–4.115 [95.6–104.5]	4.265–4.350 [108.3–110.5]	5.015–6.005 [127.4–152.5]	6.255 [158.9]	6.25 [158.8]
Mechanical release tool, in	2	2	2	2.5	2.5	4.5
Pressure rating, psi [MPa]	18,300 [126]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]	15,000 [103]
Maximum exposure for 100 h						
Temperature, degF [degC]	330 [166]	330 [166]	330 [166]	330 [166]	330 [166]	330 [166]
Pressure, psi [MPa]	15,000 [103]	15,000 [103]	15,000 [103]	15,000 [103]	15,000 [103]	15,000 [103]
Length (overall), ft [m]	9.89 [3.01]	9.86–9.91 [3.0–3.02]	9.75 [3.02]	9.75–10.09 [2.97–3.07]	9.83 [2.99]	11.77 [3.58]
Length (makeup), ft [m]	9.89 [3.01]	9.86–9.91 [3.0–3.02]	9.91 [3.02]	9.75–10.09 [2.97–3.07]	9.83 [2.99]	11.36 [3.46]
Weight, lbm [kg]	168–180 [76–82]	193–211 [88–96]	212–225 [96–102]	332–430 [151–195]	442–451 [200–205]	900 [408]
Service (NACE International MR-0175/ISO-15156)	No	No	No	No	No	No
Tensile rating, lbf [kN]	70,000 [311]	62,000 [276]	62,000 [276]	62,000–115,000 [276–512]	115,000 [512]	168,000 [747]
Lower connection	2.375-6 SA box	3.000-6 SA box	3.000-6 SA box	3.000-6 SA box	3.000-6 SA box	HSD* high-shot-density gun system taper pin

Other sizes and configurations are available upon request.



MAXR operation.

www.slb.com/perforating