

SXAR Automatic Gun Release

Drops guns immediately after firing to avoid stuck tools and sanding

APPLICATIONS

- Tubing-conveyed perforating (TCP) applications
- Wells with deviations up to 80°

BENEFITS

- Improves perforation cleanup by quick gun removal
- Prevents sanding in guns
- Allows easy, one-piece fishing

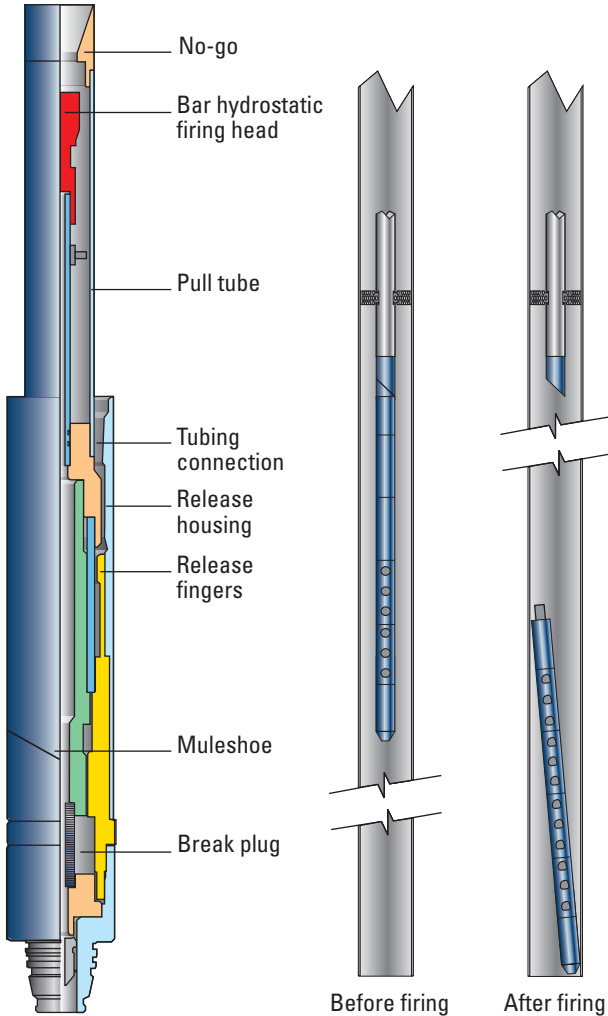
FEATURES

- Fast actuating
- Compatible with numerous firing heads
- Available in H₂S-compatible versions

The explosive automatic gun release (SXAR) is used to drop TCP guns to the bottom of the well when they are fired. Dropping them to the bottom keeps the string from becoming stuck or clogged with sand in unconsolidated formations in which sanding is a problem. It also eliminates the need for wireline or pressure-activated drop-off in highly deviated wells in which drop-off must be quickly initiated when the guns are fired to start the string moving.

A full-tubing opening exists after the gun string is dropped, and the tailpipe incorporates a muleshoe entry wireline guide. Firing heads and no-gos are dropped as one piece for easy fishing. The SXAR gun release is compatible with a range of firing heads, including the drop-bar hydrostatic firing head, high-pressure hydraulic-delay firing head, trigger charge firing head, and the ProFire* programmable firing head and eFire* electronic firing head system.

Standard service is for a non-H₂S environment, but H₂S versions are available at reduced pressure ratings. Another option is a choice of threads.



SXAR gun release.

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Specifications†

Size, in	2 ³ / ₈	2 ⁷ / ₈	3 ¹ / ₂	4 ¹ / ₂	5 ¹ / ₂	7
OD, in [mm]	3.060 [77.7]	3.680 [93.5]	4.500 [114.3]	5.200 [132.1]	6.070 [154.1]	7.430 [188.7]
ID, in [mm]	1.985 [50.4]	2.441 [62]	2.441 [62]	3.958 [100.5]	4.864 [123.5]	6.004 [152.5]
Pressure ratings						
Max. differential, psi [MPa]	12,000 [83]	8,800 [61]	8,800 [61]	13,200 [91]	10,700 [74]	10,800 [74]
Max. hydrostatic, psi [MPa]	20,000 [138]	20,000 [138]	20,000 [138]	15,000 [103]	15,000 [103]	15,000 [103]
Min. to actuate, psi [MPa]	500 [3.4]	500 [3.4]	500 [3.4]	500 [3.4]	500 [3.4]	500 [3.4]
Min. weight required, lbm [kg]	200 [91]	200 [91]	200 [91]	500 [227]	700 [318]	1,000 [454]
Temperature rating, degF [degC]	330 [165]	330 [165]	330 [165]	330 [165]	330 [165]	330 [165]
Tensile strength at min. yield, lbf [kN]	109,000 [485]	140,000 [623]	140,000 [623]	270,000 [1,201]	253,000 [1,125]	492,000 [2,188]

Note: The SXAR is available in additional sizes and for special applications.

† May change depending on final configuration and tubing connection or service selected

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