

APPLICATIONS

- Coiled tubing, slickline and TCP perforating
- Multistage fracturing operations
- Firing head delays

FEATURES

- Design allows for 6 minute time increments
- Used for detonating multiple gun assemblies in one run
- Can be easily converted to a firing head delay

BENEFITS

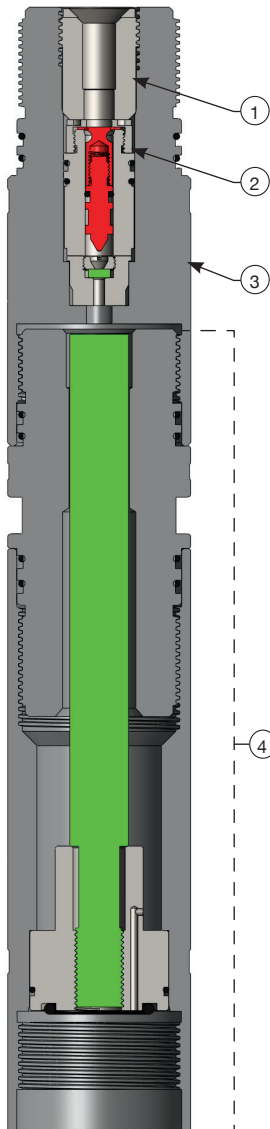
- Only one firing head required
- Only one assembly required for two applications

Running multiple guns on pipe can become complicated when using conventional pressure activated firing heads. Hunting's Gun to Gun Transfer system can reliably detonate as many guns as required with a 6 minute delay between each initiation. Only one Direct Pressure Firing Head is required either at the top or bottom of the gun assembly.

This system is ideal for multistage fracturing jobs where several intervals require perforating preferably in a single run.

Initiation of the first gun triggers the Gun to Gun Transfer system. This allows a 6 minute time delay where the gunstring can be moved to the next perforating interval. This sequence is repeated until all guns have been fired.

The delay fuse can also be configured to combine with drop bar or pressure firing heads by simply replacing the initiation assembly with a conventional firing body.



GUN TO GUN TRANSFER WITH 6 MINUTE DELAY HARDWARE SPECIFICATIONS

	1	2
	Alignment Insert	Firing Pin Assembly
Part Number	FHPA-3125-607	FPIN-1375-100**
Max. 100 Hour Temperature Rating (°F)[°C]†	N/A	400 [204]
Max. Pressure (psi)[MPa]‡	N/A	20,000 [138]
Redress Kit Part Number	N/A	FPIN-1375-100**-KIT

O.D. (in)[mm]	3				
	Firing Head Body	O-Ring†	Max. Temp. (°F)[°C]†	Max. Pressure (psi)[MPa]‡	Max. Tension (lbf)[kN]
2 [51]	FBDY-200P-200B	0111-221-090	400 [204]	20,000 [138]	80,000 [356]
2-1/2 [64]	FBDY-250P-200B	0111-225-090			172,000 [765]
2-3/4 [70]	FBDY-275P-250B	0111-227-090			234,000 [1041]
2-7/8 [73]	FBDY-275P-250B	0111-227-090			234,000 [1041]
3-1/8 [79]	FBDY-313P-313B	0111-230-090			154,000 [685]
3-3/8 [86]	FBDY-338P-313B	0111-231-090			291,000 [1294]

O.D. (in)[mm]	4		
	2 [51]	2-3/4 [70]	3-1/8 [79]
Assembly Part Number	FHPA-2000-200**	FHPA-2750-200**	FHPA-3125-200**
Makeup Length (ft)[m]§	1.45 [0.44]/1.42 [0.43]††	1.34 [0.41]	1.24 [0.38]/1.37 [0.42]††
Max. 100 Hour Temperature Rating (°F)[°C]‡	400 [204]	400 [204]	400 [204]
Max. Pressure (psi)[MPa]	20,000 [138]	20,000 [138]	20,000 [138]
Max. Tension (lbf)[kN]	87,000 [387]	147,000 [654]	174,000 [774]
Redress Kit Part Number	FHPA-2000-200**-KIT	FHPA-2750-200**-KIT	FHPA-3125-200**-KIT

** Use "HT" for high temperature operations (above 325°F (163°C))

† Hardware only. V95 Viton O-rings need to be used above 325°F (163°C)

‡ Backup O-rings required above 13,000psi (90MPa). Kits FPIN-1375-100-BUKIT and FHPA-xxxx-200-BUKIT need to be ordered separately

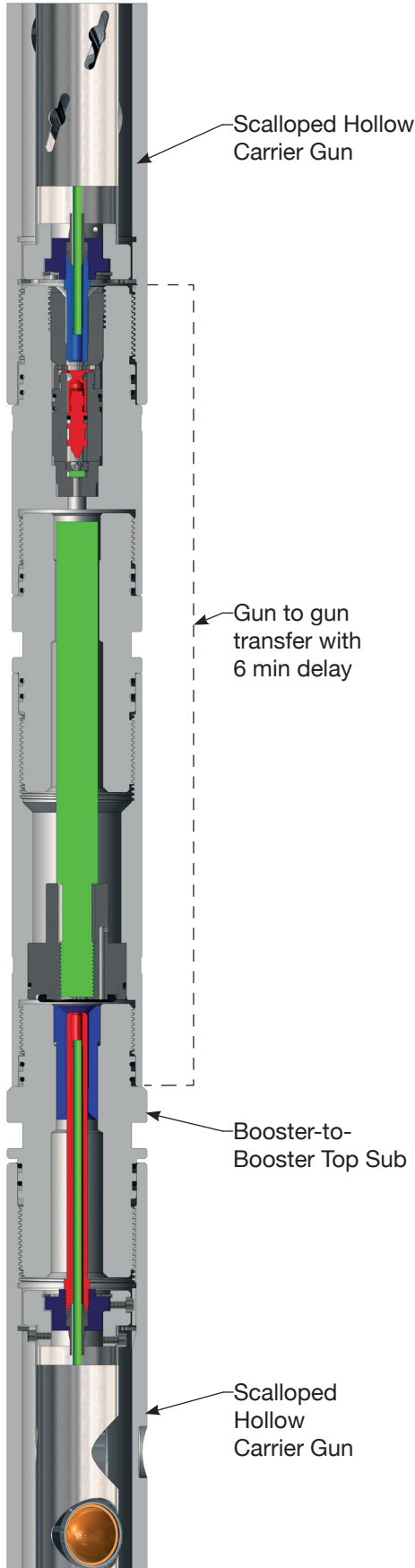
§ Includes firing head body

†† 2in gun system / 2-1/2in gun system respectively

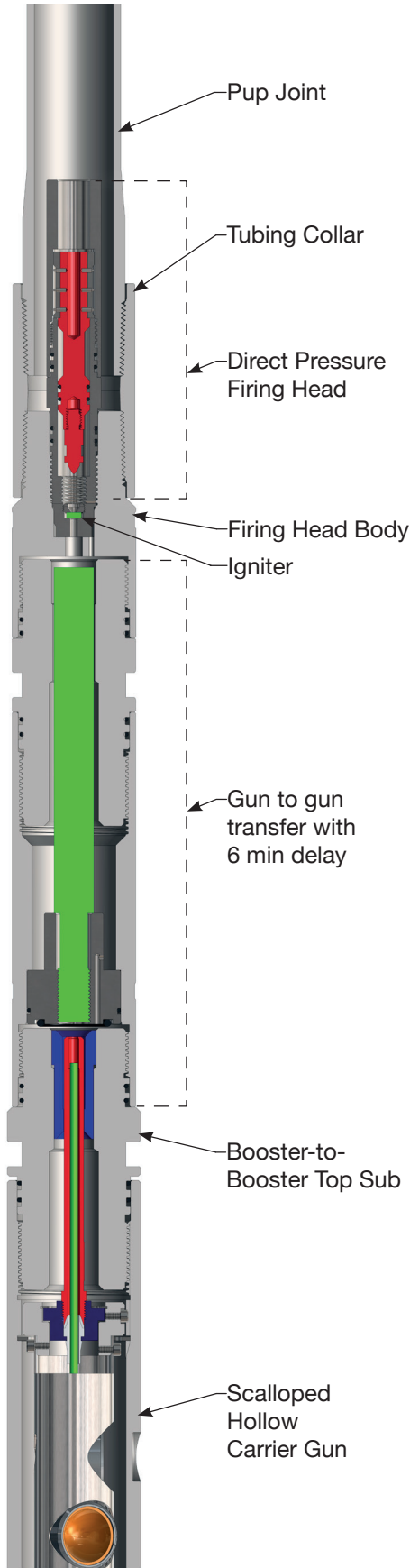
‡‡ 3-1/8in guns system / 3-3/8in gun system respectively

Gun to Gun Transfer with 6 Minute Delay / Firing Head Delay

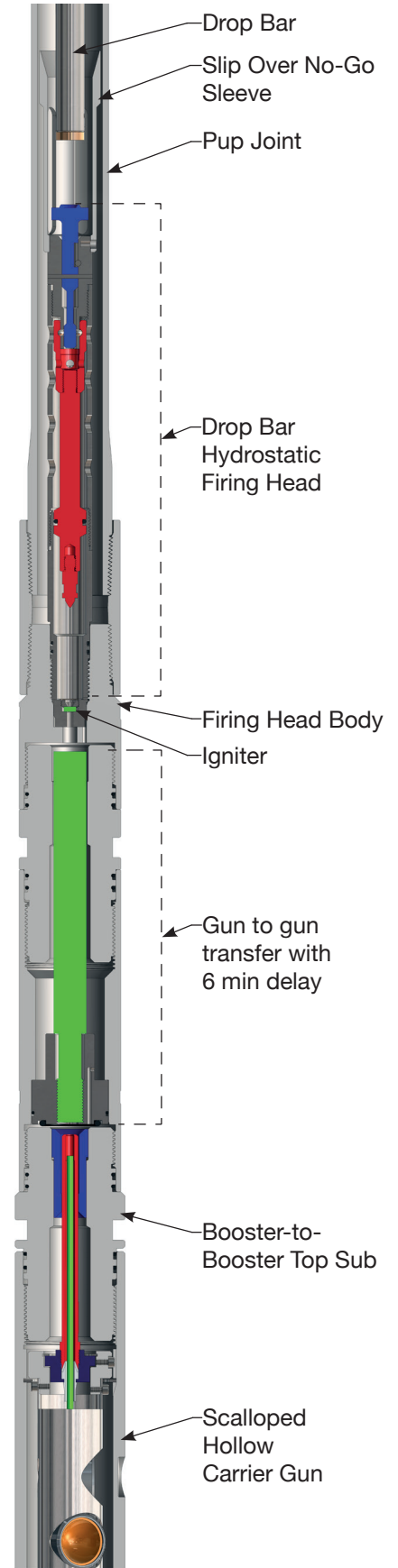
GUN TO GUN TRANSFER WITH 6 MINUTE DELAY



FIRING HEAD DELAY WITH DIRECT PRESSURE FIRING HEAD



FIRING HEAD DELAY WITH DROP BAR HYDROSTATIC FIRING HEAD



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