

6 SPF (20 SPM) GUNFACTS®

Gun Body Material: Heat treated, seamless steel tubing

Gun Body Configuration: Bolted and scalloped, or threaded and scalloped

Charge Tube Type: Round steel tube

Mode of Fire: Simultaneous or selective firing systems such as EBFire® and ControlFire®

Type of Tandem Connection: Booster-to-booster (no splice)

Initiation Point: Top or bottom fired options available for wireline and TCP

Recommended Detonating Cord: 40 grains/foot, FLAT RIBBON

O-Ring Material: Nitrile – 90 Durometer (Viton – 95 Durometer for temperatures >325°F [163°C])

O-Ring Size for Bolted Gun: 0111-220-090 / 0111-220-V95
O-Ring Size for Threaded Gun: 0111-221-090 / 0111-221-V95

Phasing	60°				
Assembly Part Number	1222-A**-066‡				
Nominal O.D. (in)[mm]	2.03 [52]				
Nominal Thickness (in)[mm]	0.21 [5.3]				
Typical Gun Swell at Ambient Conditions (in)[mm] Ambient Liquid. 7.0g Ambient Gas	2.18 [55] 2.22 [56.4]				
Min. Recommended Restriction (in)[mm]	2.50 [63]				
Drift Gauge O.D. for Gun Body I.D. (in)[mm]	1.58 [40] using Gauge Length 12in [305]				
Min. Recommended Washover Pipe Clearance: Casing Drift I.D. to Nom. Washover O.D. (in)[mm] Washover Drift I.D. to Nom. Gun O.D. (in)[mm]	N/A N/A				
Max. Hardware Temperature (°F)[°C]	500 [260]				
Max. Pressure (psi)[MPa]	20,000 [138]				
Min. Detonating Cord Velocity (ft/s)[m/s]	22,000 [6,700]				
Typical Length (ft)[m] 4 ft (18 shots) 7 ft (36 shots) 11 ft (60 shots) 21 ft (120 shots)	3.75 [1.14] 6.75 [2.06] 10.75 [3.28] 20.75 [6.32]				
Gun End to Center of First Scallop Distance (in)[mm]	5.50 [140]				
Approximate Weight Fully Loaded (lb/ft)[kg/m]	7.0 [10.4]				
Max. Tension (lbf)[kN]	135,000 [601] ^{‡§}				
Upper/Lower Head Connection	1-11/16" - 8 Stub Acme ^{‡§}				

 $^{^{\}dagger}$ Wireline bolted gun

CIRCULATING CHARGE PERFORMANCE WITH 2IN, 6 SPF GUN SYSTEM | RECOMENDED IN FLUID ONLY

Charge Name	Charge Part Number [†]	Color Code	Explosive Weight (g)	Shot Density (spf)[spm], Phasing	Entrance Hole (in)[mm]	L-80 Tubing/Casing Wall Thickness (in)[mm]	Penetration in Secondary String with 1/4" Water Clearance (in)[mm]
KoockOut	CIR-2107-4T251	Brown with Green Stripe	7.0	6 [20], 0°	0.62 [16]	1/4 [6]	0.07 [1.78]
KoockOut	CIR-2107-4T381	Orange with Green Stripe	7.0	6 [20], 0°	0.61 [16]	3/8 [10]	0.04 [1.02]
KoockOut	CIR-2107-4C501	Red with Green Stripe	7.0	6 [20], 0°	0.45 [11]	1/2 [13]	0.02 [0.51]
KoockOut	CIR-2107-4C631	Blue with Green Stripe	7.0	6 [20], 0°	0.35 [9]	5/8 [16]	0.05 [1.27]

API PERFORMANCE OF CHARGES COMPATIBLE WITH 2IN. 6 SPF GUN SYSTEM

Charge Name	Charge Type	Charge Part Number [†]	Explosive Weight (g)	Gun O.D. (in)[mm]	Shot Density (spf)[spm], Phasing	Entrance Hole (in)[mm]	Penetration (in)[cm]	Burr Height (in)[cm]	Casing Size (in)[mm]	Target Strength (psi)[MPa]
Perfecta	SDP	RTG-2107-421T	7.0	2 [51]	6 [20], 60°	0.29 [7]	26.07 [66.22]	0.05 [0.13]	2-7/8 [73]	7,650 [52.7]
Outlaw	GH	RTG-2106-331	6.5	2 [51]	4 [13], 60°	0.36 [9]	11.82 [30.02]	0.05 [0.13]	2-7/8 [73]	5,720 [39.4]
BountyHunter	ВН	FLO-2106-310	6.5	2 [51]	4 [13], 0°	0.51 [13]	4.14 [10.52]	0.03 [0.08]	4-1/2 [114]	8,650 [59.6]

Note: All charges available with RDX, HMX and HNS. Table displays charges that have been API-19B or API RP-43 certified **Bold indicates API-19B certification**. *Italics indicate API RP-43 certification*

[‡] Threaded gun

 $[\]S$ Threaded gun with booster-to-booster tandem transfer kit

 $^{^{\}star\star}$ Gun length. Example: Use "07" for 7ft gun; etc.

 $^{^\}dagger$ xxx-xxxx-3xxx for RDX, xxx-xxxx-4xxx for HMX, xxx-xxxx-5xxx for HNS