

## 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:	0111-224-090 / 0111-224-V95
O-Ring Size for Threaded Gun:	0111-225-090 / 0111-225-V95

Phasing	60°
Assembly Part Number	1228-A**-066 <sup>†</sup>
Nominal O.D. (in)[mm]	2.50 [64]
Nominal Thickness (in)[mm]	0.25 [6.4]
Typical Gun Swell at Ambient Conditions (in)[mm]	
Ambient Liquid. 12.0g	2.69 [68]
Ambient Gas. 12.0g	2.73 [69.3]
Min. Recommended Restriction (in)[mm]	2.84 [72]
Drift Gauge O.D. for Gun Body I.D. (in)[mm]	1.98 [50] using Gauge Length 12in [305]
Min. Recommended Washover Pipe Clearance:	
Casing Drift I.D. to Nom. Washover O.D. (in)[mm]	N/A
Washover Drift I.D. to Nom. Gun O.D. (in)[mm]	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 (in)[m]	
4 ft (18 shots)	4.00 [1.22] <sup>†‡§</sup>
7 ft (36 shots)	7.00 [2.13] <sup>†‡§</sup>
11 ft (60 shots)	11.00 [3.35] <sup>†‡§</sup>
21 ft (120 shots)	21.00 [6.40] <sup>†‡§</sup>
Gun End to Center of First Scallop Distance (in)[mm]	7.00 [178] <sup>†‡§</sup>
Approximate Weight Fully Loaded (lb/ft)[kg/m]	9.0 [13.4]
Max. Tension (lbf)[kN]	80,000 [356] <sup>†‡§</sup>
Max. Rockwell "C" Hardness	39
Upper/Lower Head Connection	2-1/8" - 8 Acme <sup>†§</sup>

<sup>†</sup> Wireline bolted gun      <sup>‡</sup> Threaded gun      <sup>§</sup> Threaded gun with booster-to-booster tandem transfer kit  
<sup>\*\*</sup> Gun length. Example: Use "07" for 7ft gun; etc.

## API PERFORMANCE OF CHARGES COMPATIBLE WITH 2-1/2IN, 6 SPF GUN SYSTEM

Charge Name	Charge Type	Charge Part Number <sup>†</sup>	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	<b>RTG-2512-421T</b>	<b>12.0</b>	<b>2-1/2 [64]</b>	<b>6 [20], 60°</b>	<b>0.28 [7]</b>	<b>29.36 [74.07]</b>	<b>0.05 [0.13]</b>	<b>3-1/2 [89]</b>	<b>7,650 [52.7]</b>
PerfECTA	GH	<b>RTG-2512-431</b>	<b>12.0</b>	<b>2-1/2 [64]</b>	<b>6 [20], 60°</b>	<b>0.45 [11]</b>	<b>20.31 [51.99]</b>	<b>0.05 [0.13]</b>	<b>3-1/2 [89]</b>	<b>6,710 [46.3]</b>
BountyHunter	BH	<i>FLO-2511-310B</i>	<i>11.0</i>	<i>2-1/2 [64]</i>	<i>4 [13] 0°</i>	<i>0.59 [15]</i>	<i>4.85 [12.32]</i>	<i>0.05 [0.13]</i>	<i>4-1/2 [114]</i>	<i>5,340 [36.8]</i>

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**

<sup>†</sup> xxx-xxxx-3xxx for RDX, xxx-xxxx-4xxx for HMX, xxx-xxxx-5xxx for HNS