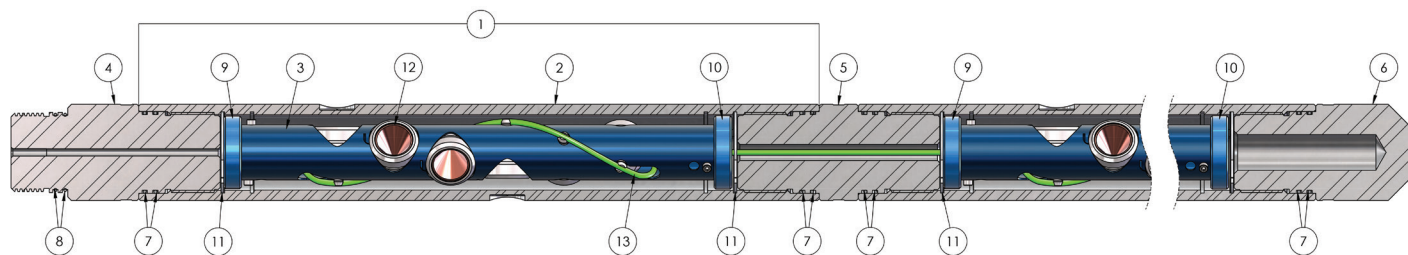


2-3/4 in. (70 mm) EXP Scalloped Hollow Carrier Gun



4 SPF (13 SPM) GUNFACTS®

Gun Body Material: Heat treated, seamless steel tubing
 Gun Body Configuration: Threaded and scalloped
 Charge Tube Type: Round steel tube
 Mode of Fire: Simultaneous or selective firing systems such as EBFire® and ControlFire®
 Initiation Point: Top or bottom fired options available for wireline and TCP
 Detonating Cord: 80 grains/foot
 O-Ring Material: Nitrile - 90 Durometer (Viton - 95 Durometer for temperatures >325°F [163°C])



02 Scalloped Guns

Expendable (EXP) Scalloped Hollow Carrier Assembly and Components				
ITEM	PART NO.	DESCRIPTION	Phase	
Gun Assy.	1B	0362-B**-041†	2-3/4 in. (70 mm) Gun Assy.	0°
		0362-B**-046†	2-3/4 in. (70 mm) Gun Assy.	60°
		0362-B**-044†	2-3/4 in. (70 mm) Gun Assy.	90°
		0362-B**-043†	2-3/4 in. (70 mm) Gun Assy.	120°
		0362-B**-042†	2-3/4 in. (70 mm) Gun Assy.	180°
	1D	0362-D**-041‡	2-3/4 in. (70 mm) Gun Assy.	0°
		0362-D**-046‡	2-3/4 in. (70 mm) Gun Assy.	60°
		0362-D**-044‡	2-3/4 in. (70 mm) Gun Assy.	90°
		0362-D**-043‡	2-3/4 in. (70 mm) Gun Assy.	120°
	2	0362-D**-042‡	2-3/4 in. (70 mm) Gun Assy.	180°
		0362-1**-041	2-3/4 in. (70 mm) Carrier Body	0°
		0362-1**-046	2-3/4 in. (70 mm) Carrier Body	60°
		0362-1**-044	2-3/4 in. (70 mm) Carrier Body	90°
		0362-1**-043	2-3/4 in. (70 mm) Carrier Body	120°
	3	0362-1**-042	2-3/4 in. (70 mm) Carrier Body	180°
0362-7**-041		Charge Tube	0°	
0362-7**-046		Charge Tube	60°	
0362-7**-044		Charge Tube	90°	
0362-7**-043		Charge Tube	120°	
	0362-7**-042	Charge Tube	180°	
Common Parts	4	0362-000-101	Top Sub	
	5	0362-000-002	Tandem Sub	
	5A	0362-000-389A	Alternate Tandem Sub w/Port	
	5B	0362-000-489A	Alternate Window Tandem Sub	
	6	0362-000-003	Gun Bottom	
	7	0111-227-V95	O-Ring	
	8	0111-227-V95	O-Ring	
	9	0362-700-031	Chg. Tube End Fitting - Aligning	
	10	0362-700-031	Chg. Tube End Fitting	
	11	0462-200-037	Snap Ring	
	12		Shaped Charge	
	13		Detonating Cord	
	TCP Conversion Kits (Not Pictured)			
	0504-500-150	Top TCP Booster Kit		
	0504-500-160	Tandem TCP Booster Kit		
		Associated Hardware (Page 72)		

Compatible Shaped Charges (Shaped Charge Summary - Page 86 & Page 90)				
Part Number	Type	Explosive Weight (g)	Application	Explosive Type
<u>RTG-2512-421T</u>	SDP	12.0	F, G	HMX
<u>EXP-2716-421T</u>	SDP	16.0	F, G	HMX
<u>EXP-2818-421T</u>	SDP	18.0	F, G	HMX
RTG-2512-371T	EQF	12.0	F, G	RDX
<u>EXP-2716-371T</u>	EQF	16.0	F, G	RDX
EXP-2716-372T	EQF	16.0	F, G	RDX
FLO-2511-310B	BH	11.0	F, G	RDX
FLO-2715-310B	BH	15.0	F, G	RDX

xxx-xxxx-3xxx for RDX, xxx-xxxx-4xxx for HMX, xxx-xxxx-5xxx for HNS
Bold indicates API-19B certification
Italics indicate API RP-43 certification
 Underlined Part Number indicates link to API Data Sheet available
 EQF indicates EQUAfrac® consistent hole shaped charges
 Application: "F" indicates that system is able to be fired in fluid
 "G" indicates that system is able to be fired in gas
 Phasing Compatibility: Refer to listed phasing(s) in Specifications table below

Specifications - EXP Scalloped Hollow Carrier Assy.	4 SPF (13 SPM)			
	0°	60°	90°	180°
Nominal O.D. (in) [mm]	2.75 [70]			
Nominal Thickness (in) [mm]	0.31 [7.9]			
Gun Swell (in) [mm]: Ambient Fluid.	No Test	2.97 [75] ≤ 18.0g	2.97 [75] ≤ 18.0g	No Test
Gun Swell (in) [mm]: Ambient Gas.	No Test	2.99 [76] ≤ 18.0g	2.99 [76] ≤ 18.0g	No Test
Minimum Recommended Restriction (in) [mm]	3.05 [77]			
Maximum Pressure (psi) [MPa]	20,000 [138]			
Distance to First Scallop (in) [mm]	7.50 [191]			
Approximate Weight - Loaded (lb/ft) [kg/m]	11.0 [16.3]			
Max. Tension (lbf) [kN]	210,000 [934]			

N/R Not Recommended

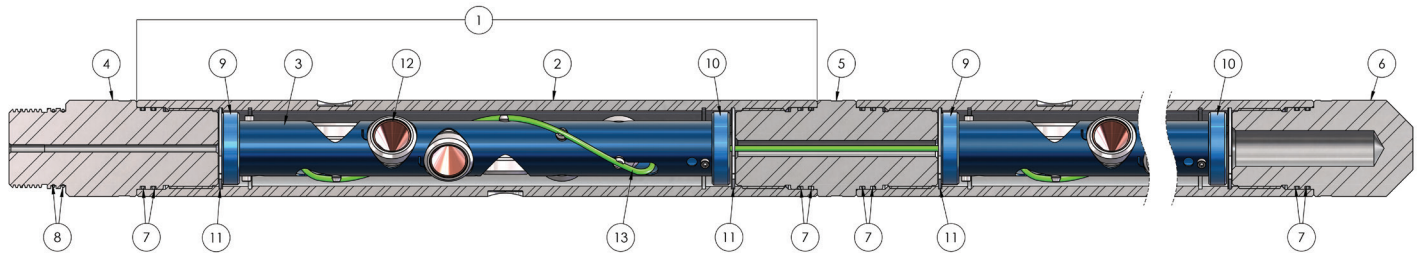
** Gun length. Common Lengths are 2, 3, 4, 5, 7, 11, 15, & 21 foot.
 Example: Use "02" for 2ft gun assembly; etc. (0363-B02-046)

† B • Light wall charge tube 1-5/8" diameter .049 wall • Detonating cord can be installed inside or outside of charge tube

‡ D • Heavy wall charge tube 1-3/4" diameter .065 wall • Detonating cord must be installed inside the charge tube

6 SPF (13 SPM) GUNFACTS®

Gun Body Material: Heat treated, seamless steel tubing
 Gun Body Configuration: Threaded and scalloped
 Charge Tube Type: Round steel tube
 Mode of Fire: Simultaneous or selective firing systems such as EBFire® and ControlFire®
 Initiation Point: Top or bottom fired options available for wireline and TCP
 Detonating Cord: 80 grains/foot
 O-Ring Material: Nitrile - 90 Durometer (Viton - 95 Durometer for temperatures >325°F [163°C])



Expendable (EXP) Scalloped Hollow Carrier Assembly and Components				
	ITEM	PART NO.	DESCRIPTION	Phase
Gun Assy.	1B	0362-B**-066†	2-3/4 in. (70 mm) Gun Assy.	60°
	1D	0362-D**-066‡	2-3/4 in. (70 mm) Gun Assy.	60°
	2	0362-1**-066	2-3/4 in. (70 mm) Carrier Body	60°
	3	0362-7**-066	Charge Tube	60°
Common Parts	4	0362-000-101	Top Sub	
	5	0362-000-002	Tandem Sub	
	5A	0362-000-389A	Alternate Tandem Sub w/Port	
	5B	0362-000-489A	Alternate Window Tandem Sub	
	6	0362-000-003	Gun Bottom	
	7	0111-227-V95	O-Ring	
	8	0111-227-V95	O-Ring	
	9	0362-700-031	Chg. Tube End Fitting - Aligning	
	10	0362-700-031	Chg. Tube End Fitting	
	11	0462-200-037	Snap Ring	
	12		Shaped Charge	
	13		Detonating Cord	
	TCP Conversion Kits (Not Pictured)			
		0504-500-150	Top TCP Booster Kit	
		0504-500-160	Tandem TCP Booster Kit	
			Associated Hardware (Page 72)	

** Gun length. Common Lengths are 2, 3, 4, 5, 7, 11, 15, & 21 foot.
 Example: Use "02" for 2ft gun assembly; etc. (0363-B02-046)

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Compatible Shaped Charges (Shaped Charge Summary - Page 86 & Page 90)				
Part Number	Type	Explosive Weight (g)	Application	Explosive Type
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<u>EXP-2716-421T</u>	SDP	16.0	F	HMX
<u>EXP-2818-421T</u>	SDP	18.0	F	HMX
RTG-2512-371T	EQF	12.0	F	RDX
<u>EXP-2716-371T</u>	EQF	16.0	F	RDX
EXP-2716-372T	EQF	16.0	F	RDX
<i>FLO-2511-310B</i>	BH	11.0	F	RDX
<i>FLO-2715-310B</i>	BH	15.0	F	RDX

xxx-xxxx-3xxx for RDX, xxx-xxxx-4xxx for HMX, xxx-xxxx-5xxx for HNS

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Phasing Compatibility: Refer to listed phasing(s) in Specifications table below

Specifications - EXP Scalloped Hollow Carrier Assy.	6 SPF (20 SPM)
	60°
Nominal O.D. (in) [mm]	2.75 [70]
Nominal Thickness (in) [mm]	0.31 [7.9]
Gun Swell (in) [mm]: Ambient Fluid.	2.97 [75] ≤ 18.0g
Gun Swell (in) [mm]: Ambient Gas.	NR
Minimum Recommended Restriction (in) [mm]	3.05 [77]
Maximum Pressure (psi) [MPa]	20,000 [138]
Distance to First Scallop (in) [mm]	7.00 [178]
Approximate Weight - Loaded (lb/ft) [kg/m]	11.0 [16.3]
Max. Tension (lb/ft) [kN]	210,000 [934]

NR Not Recommended