

PERFORATION SERVICES



Charge Performance Summary

Perforating System	Casting Size	Shot Density	Phasing	Product Name	Charge Part Number	Explosive Load	Explosive Type	Entrance Hole	
(in)	(in)	(shots/foot)				(g)		(in)	
2"	3.1/2"	6F	60	2007 CONNEX™	EC2-20A0722-RC	6.8	HMX	0.26	
		6F/D	60	2007 CONNEX™XLS	EC2-20B0722-RC	6.5	HMX	0.26	
2.3/4"	4.1/2"	6F	60	2715 CONNEX™	EC2-27A1522-RC	15.0	HMX	0.39	
3 1/8"		6F	60	3323 CONNEX™	EC2-33A2322-RC	22.7	HMX	0.46	
		6F	60	3323 CONNEX™XEH	EC2-33A2342-RC	22.7	HMX	0.56	
3.3/8"		6F/D	60	3323 CONNEX™	EC2-33A2322-RC	22.7	HMX	0.47	
		6F	60	3325 CONNEX™	EC2-33B2522-RC	25.0	HMX	0.48	
4"		6F	60	3325 CONNEX™XEH	EC2-33B2542-RC	25.0	HMX	0.54	
		4F	40	4039 CONNEX™	EC2-40A3922-RC	39.0	HMX	0.49	
4 1/2"		7"	5F	60	4039 CONNEX™	EC2-40A3922-RC	39.0	HMX	0.46
			12F	135/45	3323 CONNEX™	EC2-33A2322-RC	22.7	HMX	0.40
7"		9.5/8"	12F	135/45	4039 CONNEX™	EC2-40A3922-RC	39.0	HMX	0.44

Perforating System	Casting Size	Shot Density	Phasing	Product Name	Charge Type	Explosive Type	Explosive Load	Entrance Hole	Penetration (n)			
									(QC)	(API RP-43)	(API RP-19B)	
(in)	(in)	(shots/foot)	(deg)				(g)	(in)				
1.9/16"	2-3/8"	4D	0/60/90	EC1-15A0322	RaZor	HMX	3.2	0.19		13.09		
1.3/4"	2-7/8"	4D/6F		EC1-17A0522	RaZor	HMX	5.1	0.26		21.63		
2.1/32"	3-1/2"	6D	0/60/90	EC1-20A0742	GH	HMX	6.8	0.36		20.52		
		6D	0/60/90	EC1-20A0722	RaZor	HMX	6.8	0.24		24.40	22.30	
2.1/2"	4-1/2"	6F	60	EC1-25A1122	RaZor	HMX	11	0.32	26.00			
2.3/4"		6D	60	EC2-27A1522	RaZor	HMX	15	0.39		37.45		
3.1/8" LP SG		4D	60/90/120	EC2-31A1641	GH	RDX	16	0.50		24.12		
		6F	60	EC2-33A1911	DP	RDX	19	0.39	23.50			
3.1/8"		5"	4F	60/90/120	EC2-33A2311	DP	RDX	22.7	0.41	31.50		
			12F	135/45	EC2-31B1231	SBH	RDX	12	0.78	5.23		
3.3/8"		4-1/2"	6D	60*	EC2-33B1941	GH	RDX	19	0.60		28.56	
			6D	60*	EC2-33B1921	XDP	RDX	19	0.51		42.07	
			6F	60*	EC2-33B1921	RaZor	HMX	23	0.42		39.09	
			6D	60*	EC2-33A2341	RaZor	HMX	22.7	0.56	27.68	21.63	
	6D		60*	EC2-33A2341	GH	RDX	22.7	0.52		33.58		
	6D		60*	EC2-33A2342	GH	HMX	22.7	0.50	31.00			
	6F		60*	EC2-33A2541	GH	RDX	25	0.57		25.91		
	6D		60*	EC2-33A2341	DP	RDX	22.7	0.42		37.28		
	6D		60*	EC2-33A2312	DP	HMX	22.7	0.50	38.00			
	6D		60*	EC2-33A2321	XDP	RDX	22.7	0.45	35.00			
	5-1/2"	6D	60*	EC2-33A2322	RaZor	HMX	22.7	0.45	36.00			
		12F	135/45	EC2-33C1431	SBH	RDX	14	0.70	4.60			
		6D	60*	EC2-33C1431	RaZor	HMX	23	0.45		46.32		
		6F	60*	EC2-33B2521	XDP	RDX	25	0.45		44.58		
4"	5-1/2"	6F	60*	EC2-33B2522	RaZor	HMX	25	0.47		48.14		
		5F	60	EC2-40A3311	DP	RDX	33	0.45	38.83			
		6D	60*	EC2-33B2522	RaZor	HMX	25	0.47		46.11		
		4F	60/90	EC2-40A3921	XDP	RDX	39	0.45	52.00			
4.1/2"	7"	4F	60/90	EC2-40A3922	RaZor	HMX	39	0.43		56.43	53.30	
		5F	60	EC2-40A3921	XDP	RDX	39	0.42	59.00			
5F		60	EC2-40A3922	RaZor	HMX	39	0.42		62.86			
12F		135-45	EC2-33A2322	RaZor	HMX	22.7	0.37		33.44			
4.1/2" TL		12F	135-45	EC2-45A0722	SBH(LD)	RDX	28	0.87		5.67		
4.5/8" TL		16F	140-20	EC2-46A2631	SBH(LD)	RDX	26	0.86		5.70		
		16F	140-20	EC2-45B2631	SBH	RDX	26	0.94		6.27		
5" TL		8D	135-45	EC2-45A2831	SBH(LD)	RDX	28	0.99		8.06		
5.1/8" TL		7-5/8"	12F	135-45	EC2-51A3231	SBH(LD)	RDX	32	1.02		7.04	
			16F	140-20	EC2-51A3231	SBH(LD)	RDX	32	1.01		6.98	
7" TL	9.5/8"	15F	140-20	EC2-70A3931	SBH(LD)	RDX	38	1.24		7.08		
7"		12F	135-45	EC2-70B3941	GH	RDX	39	0.80		15.42		
		12F	135-45	EC2-40A3922	RaZor	HMX	39	0.41	49.20			