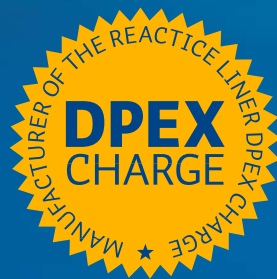


CHARGE PERFORMANCE SUMMARY



Deep Penetrating Perforating Systems

GUN CONFIGURATION			CHARGE TYPE				PERFORMANCE				CASING	SOURCE
GUN O.D. mm in.	PHASE (°)	SHOT DENSITY (spm) dry or fluid	EXPLOSIVE WEIGHT (g)	CASE TYPE	CASE MATERIAL	PART NO.	EHD (in.)	TTP (in.)	TTP _{NORMALIZED TO 5,000 PSI} (in.)	TTP _{NORMALIZED TO 5,000 PSI} (mm)	O.D. (in.)	
70 2 3/8	60	20.0 F	15.0	HMX	Steel	2313286	0.32	28.04	28.70	729	4 1/2	API 19B
73 2 7/8	60	20.0 D	15.0	RDX	Steel	2313285	0.32	25.26	25.58	649	4 1/2	API 43F
	60	20.0 D	15.0 DPEX	RDX	Steel	2317133	0.39	17.93	18.85	479	4 1/2	QC
	60	20.0 F	15.0	RDX	Zinc	2313288	0.32	25.18	25.75	654	4 1/2	API 43F
	60	20.0 D	15.0	HMX	Steel	2313286	0.26	30.50	32.79	833	4 1/2	API 19B
	60	20.0 F	15.0	HMX	Zinc	2313289	0.32	25.37	25.68	652	4 1/2	API 43F
	60	20.0 F	15.0 DP2	HMX	Zinc	2316327	0.25	24.70	26.50	763	4 1/2	API 19B
	60	20.0 D	15.0 DP2	HNS	Steel	2315920	0.25	24.43	28.01	711	4 1/2	API 19B
	80 3 1/8	60	20.0 D	23.0	HMX	Steel	2316422	0.35	29.92	31.56	802	4 1/2
86 3 3/8	60	20.0 D	22.7	HMX	Steel	2310013	0.41	21.32	22.23	564	5	API 43F
	60	20.0 D	23.0	RDX	Steel	2316417	0.41	35.91	38.60	980	5 1/2	API 43F
	60	20.0 D	23.0	HMX	Steel	2316422	0.33	33.05	37.12	943	5	API 19B
	60	20.0 D	23.0 DPEX	HMX	Steel	2317006	0.41	26.91	29.41	747	5 1/2	API 43F
	60	20.0 D	24.0	RDX	Steel	2313383	0.34	26.61	27.70	703	5	API 43F
	60	20.0 F	24.0	RDX	Zinc	2313386	0.34	24.09	24.97	634	5	API 43F
	60	20.0 D	24.0	HMX	Steel	2313384	0.35	26.14	27.39	695	5	API 43F
	60	20.0 F	24.0	HMX	Zinc	2313387	0.35	26.15	27.92	709	5	API 43F
	60	20.0 D	26.0	RDX	Steel	2315510	0.35	34.33	36.19	919	5	API 43F
	60	20.0 F	26.0	HMX	Steel	2314659	0.38	41.20	43.95	1.116	5	API 19B
	60	16.5 D	26.0	HMX	Steel	2314659	0.36	42.65	45.68	1.160	5	API 19B
	60	16.5 D	26.0	HNS	Steel	2315512	0.28	30.68	33.61	854	5	API 19B
	60	20.0 F	26.0 DPEX	HMX	Steel	2317008	0.45	32.10	34.43	875	5	API 19B
	60	13.0 D	32.0 DP2	HMX	Steel	2313276	0.44	30.40	32.44	823	5	API 43F

Deep Penetrating Perforating Systems

GUN CONFIGURATION			CHARGE TYPE				PERFORMANCE				CASING	SOURCE
GUN O.D. mm in.	PHASE (°)	SHOT DENSITY (spm) dry or fluid	EXPLOSIVE		CASE MATERIAL	PART NO.	EHD (in.)	TTP (in.)	TTP ^{NORMALIZED TO 5,000 PSI}		O.D. (in.)	
			WEIGHT (g)	TYPE					(in.)	(mm)		
102 4	60	20.0 D	26.0 DPEX	HMX	Steel	2317008	0.45	28.50	30.24	768	5 1/2	API 19B
	60	16.5 F	32.0 DP1	RDX	Zinc	2314426	0.41	31.60	32.15	816	5 1/2	API 43F
114 4 1/2	45 135	39.0 F	15.0	HMX	Zinc	2313289	0.33	20.73	22.10	561	7	API 43F
	45 135	39.0 F	20.0	HMX	Steel	2317324	0.32	33.30	36.27	921	7	API 19B
NDG	45 135	39.0 D	22.7	RDX	Steel	2810257	0.38	16.38	18.03	457	7	API 43F
	+/- 10	16.5 D	26.0	HMX	Steel	2314659	0.26	39.22	43.19	1,097	7	API 19B
	60	16.5 F	32.0 DP2	RDX	Zinc	2313278	0.37	39.18	39.59	1,005	7	API 43F
	60	16.5 D	32.0 DP2	RDX	Steel	2313275	0.38	39.02	40.76	1,035	7	API 43F
	60	16.5 F	32.0 DP2	HMX	Zinc	2313279	0.38	38.65	39.06	992	7	API 43F
	60	16.5 D	32.0 DP2	HMX	Steel	2313276	0.37	44.47	47.03	1,195	7	API 19B
	60	16.5 D	39.0	RDX	Steel	2315470	0.43	44.85	47.79	1,214	7	API 43F
	60	16.5 D	39.0	HMX	Steel	2314650	0.39	45.53	46.60	1,184	7	API 19B
	60	16.5 D	39.0	HNS	Steel	2315471	0.40	40.87	43.18	1,097	7	API 19B
	60	16.5 D	39.0 DPEX	HMX	Steel	2317129	0.50	39.30	40.76	1,035	7	API 19B
60	16.5 D	39.0 DP2	HMX	Steel	2317312	0.45	52.10	57.26	1,454	7	API 19B	

Good Hole Perforating Systems

GUN CONFIGURATION			CHARGE TYPE				PERFORMANCE				CASING	SOURCE
GUN O.D. mm in.	PHASE (°)	SHOT DENSITY (spm) dry or fluid	EXPLOSIVE WEIGHT (g)	TYPE	CASE MATERIAL	PART NO.	EHD (in.)	TTP (in.)	TTP _{NORMALIZED TO 5,000 PSI} (in.)	(mm)	O.D. (in.)	
86 3 3/8	60	20.0 D	23.0	HMX	Steel	2316423	0.54	16.34	17.84	453	5	API 19B
102 4	60	20.0 D	26.0	HMX	Steel	2316325	0.60	25.65	27.74	705	5 1/2	API 19B
178 7	45 135	39.0 D	50.0	HMX	Steel	2316715	0.80	19.80	21.00	533	9 5/8	API 19B

Big Hole Perforating Systems

GUN CONFIGURATION			CHARGE TYPE				PERFORMANCE				CASING	SOURCE
GUN O.D. mm in.	PHASE (°)	SHOT DENSITY (spm) dry or fluid	EXPLOSIVE WEIGHT (g)	TYPE	CASE MATERIAL	PART NO.	EHD (in.)	TTP (in.)	TTP _{NORMALIZED TO 5,000 PSI} (in.)	(mm)	O.D. (in.)	
51 2	60	20.0 F	6.5	HMX	Steel	2317383	0.44	5.08	5.34	136	2 1/8	QC
73 2 7/8	60	20.0 D	15.0	HMX	Steel	2317321	0.70	8.90	9.56	243	4 1/2	API 19B
86 3 3/8	60	20.0 D	22.7	RDX	Steel	2313330	0.84	7.63	8.40	213	5	API 19B
	60	20.0 F	22.7	RDX	Zinc	2313333	0.75	6.75	7.13	171	5	API 43F
	90	13.0 D	32.0	HMX	Steel	2314545	0.89	6.60	7.02	178	5	API 19B
102 4	60	20.0 D	22.7	RDX	Steel	2313330	0.83	7.04	7.47	190	7	API 19B
	60	20.0 D	22.7 BH2	RDX	Steel	2316714	0.99	7.32	7.63	194	5 1/2	API 19B
	60	16.5 D	32.0	HMX	Steel	2314545	0.86	6.72	7.22	183	7	API 19B
114 4 1/2	45 135	39.0 D	22.7	RDX	Steel	2313330	0.74	7.03	7.18	182	7	API 43F
	45 135	39.0 F	22.7	RDX	Zinc	2313333	0.71	6.73	7.55	191	7	API 43F
	45 135	39.0 F	22.7	HMX	Zinc	2313334	0.76	6.81	7.42	188	7	API 19B
	45 135	39.0 D	22.7 BH2	RDX	Steel	2316714	0.95	6.92	7.38	188	7	API 19B
178 7	45 135	39.0 F	61.0	RDX	Steel	2315474	1.09	6.84	7.56	192	7	API 43F
	45 135	39.0 F	61.0	HMX	Zinc	2315473	1.18	7.40	8.11	206	9 5/8	API 19B

Through Tubing Perforating Systems

GUN CONFIGURATION			CHARGE TYPE				PERFORMANCE				CASING	SOURCE
GUN O.D. mm in.	PHASE (°)	SHOT DENSITY (spm) dry or fluid	EXPLOSIVE WEIGHT (g)	CASE TYPE	MATERIAL	PART NO.	EHD (in.)	TTP (in.)	TTP _{NORMALIZED TO 5,000 PSI} (in.)	(mm)	O.D. (in.)	
HOLLOW CARRIER PERFORATING SYSTEMS												
40 1 9/16	60	20.0 F	3.0	HMX	Steel	2316326	0.18	12.60	13.64	339	2 7/8	API 19B
51 2	60	20.0 F	6.5	RDX	Steel	2314473	0.21	18.96	20.61	523	2 7/8	API 43F
	60	20.0 F	6.5 DPEX	RDX	Steel	2317150	0.28	12.40	13.02	331	2 7/8	QC
	60	20.0 F	6.5	HMX	Steel	2314658	0.22	18.68	20.38	518	2 7/8	API 19B
STRIP GUN PERFORATING SYSTEMS												
43 1 11/16	0	20.0 D	8.0	RDX	Steel	2314652	0.30	21.89	22.60	574	4 1/2	API 43F
	0	20.0 D	8.0	HMX	Steel	2314653	0.25	22.66	24.25	616	4 1/4	API 19B
	0	20.0 F	8.0 DPEX	HMX	Steel	2317315	0.34	15.10	16.07	408	4 1/2	API 19B
54 2 1/8	0	20.0 D	13.0	HMX	Steel	2810661	0.33	32.59	36.26	921	5 1/2	API 19B
	0	20.0 F	13.0 DPEX	HMX	Steel	2317318	0.43	26.30	21.53	699	5	API 19B
LINK GUN PERFORATING SYSTEMS												
43 1 11/16	60	13.0 D	8.0	RDX	Steel	2315336	0.29	19.30	19.93	506	4 1/2	API 43F
	60	20.0 D	8.0	HMX	Steel	2314643	0.30	19.78	20.65	525	4 1/2	API 19B
54 2 1/8	90	20.0 D	13.0	RDX	Steel	2313322	0.27	22.48	22.86	580	5 1/2	API 43F
	60	20.0 D	13.0	HMX	Steel	2313323	0.28	24.47	26.60	676	5 1/2	API 19B

Refer to specific API data sheets for more information



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