

## Specifikace perforátorů a kumulativních náložek

Deep Penetrating Perforating Systems Performance														
Gun Configuration			Charge Type			Performance				Casing Configuration			Target	Source
Gun O.D.	Phasing	Shot Density	Explosive Weight	Explosive Type	Case Material	EHD	TTP	TTP normalized to 5,000 psi		Casing O.D.	Casing Weight	API Grade	Strength	
(mm)	(°)	(spm)	(g)			(in.)	(in.)	(in.)	(mm)	(in.)	(lb/ft)		(psi)	
70	60	20	15	HMX	Steel	0.32	28.04	28.70	729	4,5	11.6	L-80	5470	API 19B
73	60	20	15	HMX	Steel	0.26	30.50	32.79	833	4 1/2	11.6	L-80	6500	API 19B
73	60	20	15 DP2	HMX	Zinc	0.25	24.7	26.50	763	4 1/2	11.6	L-80	6460	API 19B
73	60	20	15 DP2	HNS	Steel	0.25	24.43	28.01	711	4 1/2	11.6	L-80	7780	API 19B
73	60	20	15	RDX	Steel	0.32	25.26	25.58	649	4 1/2	11.6	L-80	5256	API 43F
73	60	20	15	RDX	Zinc	0.32	25.18	25.75	654	4 1/2	11.6	L-80	5450	API 43F
73	60	20	15	HMX	Zinc	0.32	25.37	25.68	652	4 1/2	11.6	L-80	5244	API 43F
73	60	20	15	HMX	Steel	0.32	25.63	26.08	662	4 1/2	11.6	L-80	5354	API 43F
80	60	20	23	HMX	Steel	0.35	31,61	33,34	846	4 1/2	11,6	L-80	6092	API19B
86	60	20	22.7	HMX	Steel	0.41	21.32	22.23	564	5	15.0	L-80	5850	API 43F
86	60	20	23	HMX	Steel	0.33	33.05	37.12	943	5	15.0	L-80	7460	API 19B
86	60	20	24	RDX	Steel	0.34	26.61	27.70	703	5	15.0	L-80	5820	API 43F
86	60	20	24	HMX	Steel	0.35	26.14	27.39	695	5	15.0	L-80	5960	API 43F
86	60	20	24	RDX	Zinc	0.34	24.09	24.97	634	5	15.0	L-80	5730	API 43F
86	60	20	24	HMX	Zinc	0.35	26.15	27.92	709	5	15.0	L-80	6350	API 43F
86	60	20	26	RDX	Steel	0.35	34.33	36.19	919	5	15.0	L-80	6083	API 43F
86	60	16,5	26	HMX	Steel	0.38	41.89	46.69	1186	5	15.0	L-80	7290	API 19B
86	60	16,5	26	HNS	Steel	0.28	30.68	33.61	854	5	15.0	L-80	6910	API 19B
86	60	13	32 DP2	HMX	Steel	0.44	30.40	32.44	823	5	15.0	L-80	6340	API 43F
101	60	16.5	32 DP1	RDX	Zinc	0.41	31.60	32.15	816	5 1/2	17.0	L-80	5350	API 43F
102	60	20	26	HMX	Steel	0.45	28,5	30,24	768	5 1/2	17	L-80	5910	API19B
114	60	16.5	32 DP2	HMX	Steel	0.38	39.76	40.40	1026	7	32.0	L-80	5320	API 43F
114	60	16.5	32 DP2	RDX	Zinc	0.37	39.18	39.59	1005	7	32.0	L-80	5210	API 43F
114	60	16.5	32 DP2	RDX	Steel	0.38	39.02	40.76	1035	7	32.0	L-80	5890	API 43F
114	60	16.5	32 DP2	HMX	Zinc	0.38	38.65	39.06	992	7	32.0	L-80	5210	API 43F
114	60	16.5	32 DP2	HMX	Steel	0.38	44.47	47.03	1195	7	32.0	L-80	6140	API 19B
114	60	16.5	39	HMX	Steel	0.39	45.53	46.60	1184	7	32.0	L-80	5470	API 19B
114	60	16.5	39	HNS	Steel	0.40	40.87	43.18	1097	7	32.0	L-80	6130	API 19B
114 NDG	+/-10	16.5	26	HMX	Steel	0.26	39.22	43.19	1097	7	32.0	L-80	7025	API 19B
114	135	39	15	HMX	Zinc	0.33	20.73	22.09	561	7	32.0	L-80	6315	API 43F
114	135	39	22.7	RDX	Steel	0.38	16.38	18.03	457	7	32.0	L-80	7018	API 43F

Good Hole Perforating Systems Performance														
Gun Configuration			Charge Type			Performance				Casing Configuration			Target	Source
Gun O.D.	Phasing	Shot Density	Explosive Weight	Explosive Type	Case Material	EHD	TTP	TTP normalized to 5,000 psi		Casing O.D.	Casing Weight	API Grade	Strength	
(mm)	(°)	(spm)	(g)			(in.)	(in.)	(in.)	(mm)	(in.)	(lb/ft)		(psi)	
86	60	20	23	HMX	Steel	0.54	16.34	17.84	453	5	15.0	L-80	6838	API 19B
102	60	20	26	HMX	Steel	0.60	25.65	27.74	705	5 1/2	17.0	L-80	6630	API 19B
178	45/135	39	50	HMX	Steel	0.80	19,8	21	533	9 5/8	47	L-80	6211	API 19B

Big Hole Perforating Systems Performance														
Gun Configuration			Charge Type			Performance				Casing Configuration			Target	Source
Gun O.D.	Phasing	Shot Density	Explosive Weight	Explosive Type	Case Material	EHD	TTP	TTP normalized to 5,000 psi		Casing O.D.	Casing Weight	API Grade	Strength	
(mm)	(°)	(spm)	(g)			(in.)	(in.)	(in.)	(mm)	(in.)	(lb/ft)		(psi)	
86	60	20	22.7	RDX	Zinc	0.75	6.75	7.13	171	5	15.0	L-80	6120	API 43F
86	90	13	32	HMX	Steel	0.89	6.60	7.02	178	5	15.0	L-80	6270	API 19B
86	60	20	22.7	RDX	Steel	0.84	7.63	8.40	213	5	15.0	L-80	7025	API 19B
102	60	20	22.7	RDX	Steel	0.83	7.04	7.47	190	7	32.0	L-80	6220	API 19B
102	60	20	22.7	RDX	Steel	0.99	7.32	7.63	194	5 1/2	17	L-80	5840	API19B
102	60	16.5	32	HMX	Steel	0.86	6.72	7.22	183	7	32.0	L-80	6500	API 19B
114	45/135	39	22.7	RDX	Steel	0.95	6.92	7.38	188	7	32	L-80	6313	API19B
114	135	39	22.7	RDX	Steel	0.74	7.03	7.18	182	7	32.0	L-80	5430	API 43F
114	135	39	22.7	RDX	Zinc	0.71	6.73	7.55	191	7	32.0	L-80	7450	API 43F
114	135	39	22.7	HMX	Zinc	0.76	6.81	7.42	188	7	32.0	L-80	6800	API 19B
178	135	39	61	HMX	Zinc	1.18	7.40	8.11	206	9 5/8	47.0	L-80	6930	API 19B