

Shaped charges with the maximum operating temperature up to 150°C

Charge type	Explosive weight	Concrete penetration depth as per API Act, mm	Hole diameter as per API Act, mm	Concrete penetration depth as per RP, min, mm	Hole diameter as per RP, min, mm
Shaped charges for hollow-carrier single action jet perforation systems					
ZPK 38-AT-M-03	3.5			270	5.5
ZPK 50-AT-M-03	5.5	608.0	5.56	608	5.6
ZPK 50-AT-M-10	6.5	154.0	12.27	154	12.0
ZPK 63-AT-M-03	11.5	636.0	7.97	636	7.0
ZPK 63-AT-M-04	11.5	753.0	7.69	753	7.0
ZPK 63-AT-M-10	14.0	249.0	19.93	249	19.0
ZPK 73-AT-M-01	18.0			820	12.3
ZPK 73-AT-M-02	19.0	319.0	20.83	319	20.8
ZPK 73-AT-M-04	18.0	785.0	9.43	785	9.4
ZPK 73-AT-M-07	17.7			355	15.5
ZPK 89-AT-M-01	31.7			650	14.5
ZPK 89-AT-M-03	27.7	1025.0	11.07	1025	11.0
ZPK 89-AT-M-04	27.5	1284.0	9.79	1284	9.8
ZPK 89-AT-M-07	29.7			360	18.0
ZPK 89-AT-M-09	27.2	356.0	18.69	357	18.7
ZPK 89-AT-M-10	22.5	262.0	23.42	262	23.4
ZPK 89-AT-M-11	27.7	151.0	23.50	150	23.5
ZPK 102-AT-M-03	28.0	1245.0	12.28	1245	12.3
ZPK 102-AT-M-04	28.0	1400.0	9.70	1400	9.7
ZPK 102-AT-M-09	27.2	366.0	18.93	366	18.9
ZPK 102-AT-M-10	27.5	175.0	22.35	175	22.3
ZPK 114-AT-M-01	29.0			1000	12.7
ZPK 114-AT-M-03	32.5	1348.0	12.50	1348	12.5
ZPK 114-AT-M-04	32.7	1620.0	10.78	1620	10.8
ZPK 114-AT-M-09	27.2			440	19.7
ZPK 114-AT-M-10	27.5	189.0	23.92	189	23.9
ZPK 114-AT-M-11	27.5			150	24.5
SKIF-S-50-01	6.5			300	5.5
SKIF-M-50-01	6.5			150	11.0
SKIF-S-63-01	11.5			425	7.0
SKIF-M-63-01	15.0			400	14.5
SKIF-S-73-01	19.0			550	10.0
SKIF-M-73-01	20.0			500	17.0
SKIF-S-U-01	27.5			800	11.0
SKIF-M-U-01	27.0			625	18.5
Shaped charges for hollow-carrier single action capsule-type perforation systems					
ZPK 43-AT	9.7	6.31	510	500	5.5
ZPK 54-AT	12.7	8.55	761	700	6.5
ZPK 43-AT	9.7	6.73	518	500	5.5
ZPK 54-AT	12.7	8.47	659	700	6.5