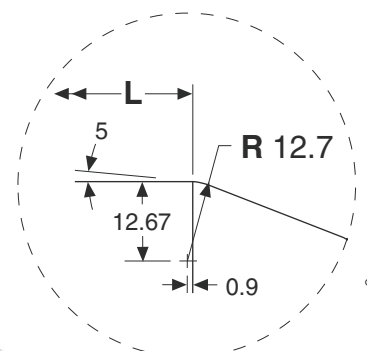
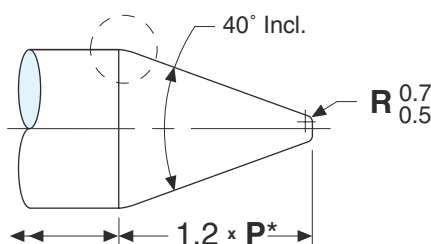
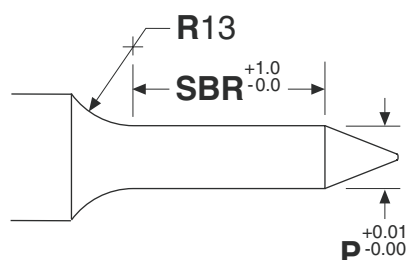


Punch & Die Button Series

Angular Pilot



* Formula for Angular Point Length:

P diameter ≥ 4.7 : $P \times 1.2$


P diameter < 4.7 : $P \times 1.5$

LBSA

Light-Duty
Ball-Lock
Solid
Angular

HBSA

Heavy-Duty
Ball-Lock
Solid
Angular

0.01 

A2 Steel - HRC 60-63
M2 Steel - HRC 60-63

BEP Code	"D"	Point Length "SBR"					Length "L"								Min. "P"
		10	13	19	25	32	63	71	80	90	100	110	125	150	
LBSA	6	10	13				63	71	80	90	100				1.3
LBSA / HBSA	10		13	19			63	71	80	90	100	110			1.3
LBSA / HBSA	13		13	19			63	71	80	90	100	110	125		2.0
LBSA / HBSA	16		13	19	25			71	80	90	100	110	125	150	4.9
LBSA / HBSA	20		13	19	25			71	80	90	100	110	125	150	5.9
LBSA / HBSA	25		13	19	25			71	80	90	100	110	125	150	7.9
LBSA / HBSA	32		13	19	25				80	90	100	110	125	150	9.9
LBSA	38			19	25				80	90	100	110	125	150	11.9
LBSA / HBSA	40			19	25	32			80	90	100	110	125	150	11.9

SPSA

Standard
Punch
Solid
Angular

DPSA

Dowel
Punch
Solid
Angular

0.005 

SKD11/D2 Steel - HRC 60-63
SKH51/M2 Steel - HRC 60-63

BEP Code	"D"	Point Length "SBR"					Length "L"								Min. "P"	Head Dia. "H"
		10	13	19	25	32	63	71	80	90	100	110	125	150		
SPSA	5	10	13				63	71	80						1.2	8
SPSA	6	10	13				63	71	80	90	100				1.3	9
SPSA	8	10	13				63	71	80	90	100				1.4	11
SPSA / SPDA	10	10	13	19			63	71	80	90	100	110			1.8	13
SPSA / SPDA	13	10	13	19			63	71	80	90	100	110	125		3.0	16
SPSA / SPDA	16		13	19	25			71	80	90	100	110	125	150	5.6	19
SPSA / SPDA	20		13	19	25			71	80	90	100	110	125	150	5.6	23
SPSA / SPDA	25		13	19	25			71	80	90	100	110	125	150	5.6	28
SPSA / SPDA	32			19	25	32			80	90	100	110	125	150	9.8	35
SPSA	40			19	25	32			80	90	100	110	125	150	11.9	43

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