

Alterations beyond standard ranges listed in the catalog that can be accomplished for a slight additional charge. Alterations beyond those listed consult factory. Standard catalog tolerances are used for all alterations unless otherwise specified

RL = Reduce Length (L)

- Punches- Stock is removed from the point end, also reducing the point length (B)
- Die Buttons-Headless (Excluding Bal-Lok). Stock is removed from the Co-bore end. Head Type with Co-Bore relief. Stock is removed from the I.D. end shortening the (B).
- Taper dies "RL" will not reduce land length

PRL = Precision Reduced Length

- Same as "RL" plus "L" is held to $\pm .02$

RD = Reduced Diameter of Shank or Body

- Max standard reduction 1.0 (Further reduction consult factory). "H" remains the same.

RP = Reduce "P" on Round Punches

- (See chart for standard ranges or consult factory)

RW = Reduce "W" on Shape Punches

- (See chart for standard ranges or consult factory)

RT = Reduce Head Thickness

- Stock removed from the top of the head (Reduces "L")

PRT = Precision Reduced Head Thickness

- Same as RT. "T" is held to $\begin{matrix} +.02 \\ -.00 \end{matrix}$

RH = Reduce Head Diameter

- Max standard reduction 1.5 (Further reduction consult factory)

LPC = Longer Point Circular

- Solid Punches Only
- Specify "B" length up to 44 mm
- Minimum body Length shown in catalog (Further reduction consult factory)

LPW = Longer Point Shape

- Solid Punches Only
- Specify "B" length up to 44 mm
- Minimum body length shown in catalog (Further reduction consult factory)

AP = Alter "P" on Round Dies

- Standard dies up to .5 over listed range (Greater increases require "AR")
- Taper dies (See chart)

AW = Alter "W" on Shape Dies

- Standard dies up to .5 over listed range (Greater increases require "AR")
- Taper dies (See chart)

AR = Alter Relief on Co-Bore Dies

- Round Relief Only

AB = Alter Land "B" Length on Die Buttons

- Reduction is from I.D. end shortening "L"

IB = Increase Land "B" on Die Buttons

- Taper Dies {1.3-6.0 (6.0) max}
- { P or W 6.1 and over (13.0) max} [Longer consult factory]
- Co-Bore Dies (Consult factory)

SK = Slug Keeper

- Slug Retention System

RP-Reduce P Chart

BODY CODE	PRC RC XRC CDRC	PC SC HC XSC CDSC	PLP PP PAP SLP SAP SP CDSAP	HBRC	BRC	BC HBC	HBLP HBAP HBP BLP BAP BP
004		1.30					
005	1.30	1.60	1.60				
006	2.00	2.00	1.60		1.30	1.30	1.40
008	3.00	3.00	1.60				
010	4.00	4.00	1.60	1.80	1.80	1.60	1.60
013	4.00	4.00	3.20	4.00	4.00	4.00	4.00
016	6.00	6.00	6.00	4.00	4.00	4.00	4.00
020	6.00	6.00	6.00	6.00	6.00	6.00	6.00
022	6.00	6.00	6.00				
025	8.00	8.00	8.00	8.00	8.00	8.00	8.00
032	10.00	10.00	10.00	10.00	10.00	10.00	10.00
040	13.00	13.00		12.00	12.00	12.00	12.00

Below 1.60mm L2 = 8 max. Pilots L2 = 10 max.
Below 2.50mm L2 = 19 max. Pilots L2 = 121 max.

RW-Reduce W Chart

BODY CODE	PRO PRR PRS PRF CDRO CDRR CDRS CDRF	PO PR PO PF CDSO CDSR CDSS CDSF	RO RR RS RF XRO XRR XRS XRF	SO SR SS SF XSO XSR XSS XSF	HBRO HBRR HBRS HBRF	HBO HBR HBS HBF	BRO BRR BRS BRF	BO BR BS BF
004		1.06		1.60				
005	1.60	1.60	1.60	1.60				
006	2.00	2.00	2.00	2.00			1.80	1.80
008	3.00	3.00	3.00	3.00				
010	4.00	4.00	4.00	4.00	1.80	1.80	1.80	1.80
013	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
016	6.00	6.00	6.00	6.00	4.00	4.00	4.00	4.00
020	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
022	6.00	6.00	6.00	6.00				
025	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
032	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20
040	7.20	7.20	7.20	7.20	7.20	7.20		

Below 1.50mm L2 = 13 max. Below 2.30mm L2 = 19 max.

AP-Alter P Chart

Inch Body Ø	MaxP/W/G
5.0	3.2
6.0	4.0
8.0	6.2
10.0	7.7
13.0	10.4
16.0	12.8
20.0	16.0
25.0	20.0
32.0	25.6
38.0	30.0
40.0	32.0

AR-Alter RØ Chart

Inch Body Ø	MaxP/W/G
8.0	6.6
10.0	8.1
13.0	10.8
16.0	13.3
20.0	16.8
25.0	20.8
32.0	26.4
38.0	30.8
40.0	32.8