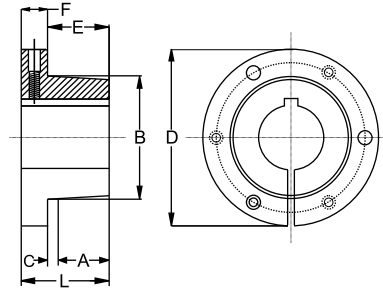




BUSHINGS

- All major designs available: Quick Detachable(PQD) bushing, Taper Lock (TL[®]) bushing, Split Taper (PST) bushing.
- Easy to mount easy to remove.
- PowerDrive Bushing are Manufactured from machined steel with black oxide finish.
- Grade 5 cap screws provided.
- Split Taper(PST) bushing has setscrew through the flange over the keyway.
- Quick Detachable(PQD) bushing allow for reverse mounting.
- Metric sizes are available.

PQD(QUICK DETACHABLE) STEEL BUSHING


PART NO.	BORE RANGE	DIMENSIONS								CAPSCREWS			TORQUE CAPACITY IN- LBS.	WRENCH TORQUE FT-LBS.
		D	L	A	B	C	E	F	NO.	SIZE	BOLT CIRCLE			
QT/H	1/2 - 1 1/2	2 1/2	1 1/4	7/8	1.625	3/16	1	1/4	2	1/4x3/4	2	-	-	
JA	1/2 - 1 1/4	2	29/32	1/2	1.375	3/16	9/16	5/16	3	10 - 24 x 1	1 21/32	1000	6	
SH	1/2 - 1 5/8	2 11/16	1 7/32	21/32	1.871	7/32	3/4	7/16	3	1/4 - 20 x 1 3/8	2 1/4	3500	9	
SDS	1/2 - 2	3 1/8	1 5/16	21/32	2.1875	7/32	7/8	7/16	3	1/4 - 20 x 1 3/8	2 11/16	5000	9	
SD	1/2 - 2	3 1/8	1 13/16	1 5/32	2.1875	7/32	1 3/8	7/16	3	1/4 - 20 x 1 7/8	2 11/16	5000	9	
SK	1/2 - 2 5/8	3 7/8	1 3/4	1 5/32	2.8125	7/32	1 7/32	9/16	3	5/16 - 18 x 2	3 5/16	7000	15	
SF	1/2 - 2 15/16	4 5/8	2 1/16	1 7/32	3.125	7/32	1 15/32	9/16	3	3/8 - 16 x 2	3 7/8	11000	30	
E	7/8 - 3 1/2	6	2 21/32	1 19/32	3.834	9/32	1 29/32	3/4	3	1/2 - 13 x 2 3/4	5	20000	60	
F	1 - 4	6 5/8	3 3/4	2 13/32	4.4375	11/32	2 3/4	1	3	9/16 - 12 x 3 5/8	5 5/8	30000	75	
J	1 1/2 - 4 1/2	7 1/4	4 5/8	3 3/16	5.1484	5/16	3 1/2	1 1/8	3	5/8 - 11 x 4 1/2	6 1/4	45000	135	
M	2 - 5 1/2	9	6 3/4	5 5/32	6.494	11/32	5 1/2	1 1/4	4	3/4 - 10 x 6 3/4	7 7/8	85000	225	
N	2 7/16 - 5 7/8	10	8 1/8	6 1/16	6.992	9/16	6 5/8	1 1/2	4	7/8 - 9 x 8	8 1/2	150000	300	
P	2 15/16 - 7	11 3/4	9 3/4	7	8.242	5/8	7 5/8	1 3/4	4	1 - 8 x 9 1/2	10	250000	450	

Note - All Bushings shown except JA have setscrew over keyway


BUSHING FLANGE TOWARD MACHINE OR MOTOR

1. Align tapped in bushing flange with drilled holes in sheave hub.
2. Insert capscrews through drilled holes in sheave hub and thread loosely into tapped holes in bushing flange.
3. Position assembly on shaft and tighten capscrews progressively and uniformly.

TO REMOVE

1. Remove capscrews and thread into tapped holes in sheave hub. Tighten progressively until bushing is free from sheave taper.
2. Remove assembly from shaft.

BUSHING FLANGE AWAY FROM MACHINE OR MOTOR

1. Align drilled holes in bushing flange with tapped holes in sheave hub.
2. Insert capscrews through drilled holes in bushing flange and thread loosely into tapped holes in sheave hub.
3. Position assembly on shaft and tighten capscrews progressively and uniformly.

TO REMOVE

1. Remove capscrews and thread into tapped holes in bushing flange. Tighten progressively until bushing is free from sheave taper.
2. Remove assembly from shaft.

CAPSCREWS ARE ALWAYS ACCESSIBLE FROM THE OUTSIDE

PQD(QUICK DETACHABLE) STEEL BUSHING

STOCK INCH BORE BUSHING

STOCK BORES	KEY SEAT	JA	SH	SDS	SD	SK	SF	E	F	J
7/16	No KS	-	-	-	-	-	-	-	-	-
1/2	1/8 x 1/16	x	x	x	x	x	x	-	-	-
9/16	1/8 x 1/16	x	x	x	x	x	x	-	-	-
5/8	3/16 x 3/32	x	x	x	x	x	x	-	-	-
(11/16)	3/16 x 3/32	x	x	x	x	x	x	-	-	-
3/4	3/16 x 3/32	x	x	x	x	x	x	-	-	-
(13/16)	3/16 x 3/32	x	x	x	x	x	x	-	-	-
7/8	3/16 x 3/32	x	x	x	x	x	x	-	-	-
(15/16)	1/4 x 1/8	x	x	x	x	x	x	-	-	-
1	1/4 x 1/8	x	x	x	x	x	x	-	-	-
1 (1/16)	1/4 x 1/8	S	x	x	x	x	x	-	-	-
1 1/8	1/4 x 1/8	S	x	x	x	x	x	-	-	-
1 (3/16)	1/4 x 1/8	S	x	x	x	x	x	-	-	-
1 1/4	1/4 x 1/8	-	x	x	x	x	x	-	-	-
1 (5/16)	5/16 x 5/32	-	x	x	x	x	x	-	-	-
1 (5/16)*	3/8 x 3/16	-	x	x	x	x	x	-	-	-
1 3/8	5/16 x 5/32	-	x	x	x	x	x	-	-	-
1 3/8*	3/8 x 3/16	-	x	x	x	x	x	-	-	-
1 7/16	3/8 x 3/16	-	x	x	x	x	x	-	-	-
1 1/2	3/8 x 3/16	-	S	x	x	x	x	-	-	-
1 9/16	3/8 x 3/16	-	S	x	x	x	x	-	-	-
1 5/8	3/8 x 3/16	-	S	x	x	x	x	-	-	-
1 11/16	3/8 x 3/16	-	-	S	S	x	x	-	-	-
		SDS	SD	SK	SF	E	F	J	M	N
1 3/4	3/8 x 3/16	s	s	x	x	x	x	-	-	-
1 13/16	1/2 x 1/4	s	s	x	x	x	x	-	-	-
1 7/8	1/2 x 1/4	s	s	x	x	x	x	-	-	-
1 15/16	1/2 x 1/4	s	s	x	x	x	x	-	-	-
2	1/2 x 1/4	N	N	x	x	x	x	-	-	-
2 1/16	1/2 x 1/4	-	-	x	x	x	x	-	-	-
2 1/8	1/2 x 1/4	-	-	x	x	x	x	-	-	-
2 3/16	1/2 x 1/4	-	-	s	s	x	x	-	-	-
2 1/4	1/2 x 1/4	-	-	s	s	x	x	-	-	-
2 5/16	5/8 x 5/16	-	-	s	s	x	x	-	-	-
2 3/8	5/8 x 5/16	-	-	s	s	x	x	-	-	-
2 7/16	5/8 x 5/16	-	-	s	s	x	x	-	-	-
2 1/2	5/8 x 5/16	-	-	s	s	x	x	-	-	-
2 9/16	5/8 x 5/16	-	-	N	S	x	x	-	-	-
2 5/8	5/8 x 5/16	-	-	N	S	x	x	-	-	-
		SF	E	F	J	M	N	P		
2 11/16	5/8 x 5/16	s	x	x	x	x	x	-	-	-
2 3/4	5/8 x 5/16	s	x	x	x	x	x	-	-	-
2 3/16	3/4 x 3/8	s	x	x	x	x	x	-	-	-
2 7/8	3/4 x 3/8	s	x	x	x	x	x	-	-	-
2 15/16	3/4 x 3/8	s	s	x	x	x	x	-	-	-
3	3/4 x 3/8	-	s	x	x	x	x	-	-	-
3 1/16	3/4 x 3/8	-	s	x	x	x	x	-	-	-
3 1/8	3/4 x 3/8	-	s	x	x	x	x	-	-	-
3 3/16	3/4 x 3/8	-	s	x	x	x	x	-	-	-
3 1/4	3/4 x 3/8	-	s	x	x	x	x	-	-	-
3 5/16	7/8 x 7/16	-	s	s	x	x	x	-	-	-
3 3/8	7/8 x 7/16	-	s	s	x	x	x	-	-	-
3 7/16	7/8 x 7/16	-	s	s	x	x	x	-	-	-
3 1/2	7/8 x 7/16	-	s	s	x	x	x	-	-	-
3 9/16	7/8 x 7/16	-	-	s	s	x	x	-	-	-
3 5/8	7/8 x 7/16	-	-	s	s	x	x	-	-	-
3 11/16	7/8 x 7/16	-	-	s	s	x	x	-	-	-
3 3/4	7/8 x 7/16	-	-	s	s	x	x	-	-	-
3 13/16	1 x 1/2	-	-	s	s	x	x	-	-	-
3 7/8	1 x 1/2	-	-	s	s	x	x	-	-	-
3 15/16	1 x 1/2	-	-	s	s	x	x	-	-	-
4	1 x 1/2	-	-	N	S	x	x	-	-	-

* Bushings with 5/16 x 5/32" Keyway will be shipped unless the 3/8 x 3/16 Keyway is specified on the order.

Additional bore sizes available upon request

STOCK BORES	KEY SEAT	J	M	N	P	W	S	STOCK BORES	KEY SEAT	N	P	W	S
4 1/16	1 x 1/2	s	x	x	x	-	-	5 9/16	1 1/2 x 3/4	s	x	-	-
4 1/8	1 x 1/2	s	x	x	x	-	-	5 5/8	1 1/2 x 3/4	s	x	-	-
4 3/16	1 x 1/2	s	x	x	x	-	-	5 11/16	1 1/2 x 3/4	s	x	x	-
4 1/4	1 x 1/2	s	x	x	x	x	-	5 3/4	1 1/2 x 3/4	s	x	x	x
4 5/16	1 x 1/2	s	x	x	x	-	-	5 13/16	1 1/2 x 3/4	s	x	-	-
4 3/8	1 x 1/2	s	x	x	x	-	-	5 7/8	1 1/2 x 3/4	s	s	x	x
4 5/16	1 x 1/2	s	x	x	x	-	-	5 15/16	1 1/2 x 3/4	-	s	x	x
4 3/8	1 x 1/2	s	x	x	x	-	-	6	1 1/2 x 3/4	-	s	x	x
4 7/16	1 x 1/2	s	x	x	x	x	-	6 1/16	1 1/2 x 3/4	-	s	-	-
4 1/2	1 1/4 x 5/8	s	x	x	x	x	-	6 1/8	1 1/2 x 3/4	-	s	-	-
4 9/16	1 1/4 x 5/8	-	x	x	x	-	-	6 5/16	1 1/2 x 3/4	-	s	-	-
4 5/8	1 1/4 x 5/8	-	x	x	x	x	-	6 3/8	1 1/2 x 3/4	-	s	-	-
4 11/16	1 1/4 x 5/8	-	x	x	x	-	-	6 7/16	1 1/2 x 3/4	-	s	x	x
4 3/4	1 1/4 x 5/8	-	s	x	x	x	-	6 1/2	1 1/2 x 3/4	-	s	x	x
4 13/16	1 1/4 x 5/8	-	s	x	x	-	-	6 9/16	1 3/4 x 3/4	-	s	-	-
4 7/8	1 1/4 x 5/8	-	s	x	x	x	-	6 5/8	1 3/4 x 3/4	-	s	-	-
4 15/16	1 1/4 x 5/8	-	s	x	x	x	-	6 11/16	1 3/4 x 3/4	-	s	-	-
5	1 1/4 x 5/8	-	s	x	x	x	-	6 3/4	1 3/4 x 3/4	-	s	x	x
5 1/16	1 1/4 x 5/8	-	s	x	x	-	-	6 13/16	1 3/4 x 3/4	-	s	-	-
5 1/8	1 1/4 x 5/8	-	s	s	x	-	-	6 7/8	1 3/4 x 3/4	-	s	x	-
5 3/16	1 1/4 x 5/8	-	s	s	x	-	-	6 15/16	1 3/4 x 3/4	-	s	x	x
5 1/8	1 1/4 x 5/8	-	s	s	x	-	-	7	1 3/4 x 3/4	-	s	x	x
5 3/16	1 1/4 x 5/8	-	s	s	x	-	-	7 1/4	1 3/4 x 3/4	-	-	x	x
5 1/4	1 1/4 x 5/8	-	s	s	x	-	-	7 3/8	1 3/4 x 3/4	-	-	x	-
5 5/16	1 1/4 x 5/8	-	s	s	x	-	-	7 7/16	1 3/4 x 3/4	-	-	x	-
5 3/8	1 1/4 x 5/8	-	s	s	x	x	-	7 1/2	1 3/4 x 3/4	-	-	x	x
5 7/16	1 1/4 x 5/8	-	s	s	x	x	-	7 3/4	2 x 3/4	-	-	x	x
5 1/2	1 1/4 x 5/8	-	s	s	x	x	x	7 7/8	2 x 3/4	-	-	x	x
								8	2 x 3/4	-	-	x	x
								8 1/4	2 x 3/4	-	-	-	x
								8 1/2	2 x 3/4	-	-	x	x
								9 1/4	2 1/2 x 1/4	-	-	-	x

Stock Millimeter Bore Bushings

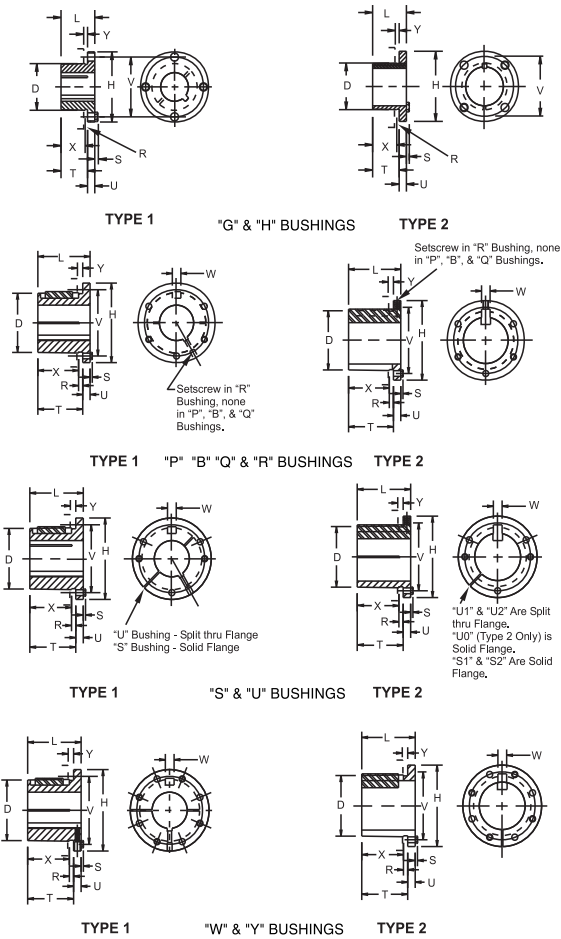
STOCK BORE	KEYSEAT (Millimeters)	QT/H	JA	SH	SDS	SD	SK	SF	E	F	J	M	N	P
14mm	5 X 5	X	X	X	X	X	X	-	-	-	-	-	-	-
15mm	5 X 5	X	X	X	X	X	X	-	-	-	-	-	-	-
16mm	5 X 5	X	X	X	X	X	X	-	-	-	-	-	-	-
17mm	5 X 5	X	X	X	X	X	X	-	-	-	-	-	-	-
18mm	6 X 6	X	X	X	X	X	X	-	-	-	-	-	-	-
19mm	6 X 6	X	X	X	X	X	X	-	-	-	-	-	-	-
20mm	6 X 6	X	X	X	X	X	X	-	-	-	-	-	-	-
22mm	6 X 6	X	X	X	X	X	X	-	-	-	-	-	-	-
24mm	8 X 7	X	X*	X	X	X	X	-	-	-	-	-	-	-
25mm	8 X 7	X	X*	X	X	X	X	-	-	-	-	-	-	-
28mm	8 X 7	X	X*	X	X	X	X	-	-	-	-	-	-	-
30mm	8 X 7	X	-	X	X	X	X	-	-	-	-	-	-	-
32mm	10 X 8	X	-	X	X	X	X	-	-	-	-	-	-	-
35mm	10 X 8	X*	-	X	X	X	X	-	-	-	-	-	-	-
38mm	10 X 8	X*	-	X*	X	X	X	-	-	-	-	-	-	-
40mm	12 X 8	-	-	-	X	X	X	-	-	-	-	-	-	-
42mm	12 X 8	-	-	-	X	X	X	-	-	-	-	-	-	-
45mm	14 X 9	-	-	-	-	-	X	-	-	-	-	-	-	-
48mm	14 X 9	-	-	-	X	-	X	-	-	-	-	-	-	-
50mm	14 X 9	-	-	-	-	-	X	-	-	-	-	-	-	-
55mm	16 X 10	-	-	-	-	-	X	-	-	-	-	-	-	-
60mm	18 X 11	-	-	-	-	-	X	-	-	-	-	-	-	-
65mm	18 X 11	-	-	-	-	-	-	-	-	-	-	-	-	-
70mm	20 X 12	-	-	-	-	-	-	-	-	-	-	-	-	-
75mm	20 X 12	-	-	-	-	-	-	-	-	-	-	-	-	-
80mm	22 X 14	-	-	-	-	-	-	-	-	-	-	-	-	-
85mm	22 X 14	-	-	-	-	-	-	-	-	-	-	-	-	-
90mm	25 X 14	-	-	-	-	-	-	-	-	-	-	-	-	-
95mm	25 X 14	-	-	-	-	-	-	-	-	-	-	-	-	-
100mm	28 X 16	-	-	-	-	-	-	-	-	-	-	-	-	-
110mm	28 X 16	-	-	-	-	-	-	-	-	-	-	-	-	-
115mm	32 X 18	-	-	-	-	-	-	-	-	-	-	-	-	-
120mm	32 X 18	-	-	-	-	-	-	-	-	-	-	-	-	-
130mm	32 X 18	-	-	-	-	-	-	-	-	-	-	-	-	-
150mm	36 X 20	-	-	-	-	-	-	-	-	-	-	-	-	-

Note: In metric bores, key not supplied for shallow keyway. The metric system does not refer to keyseat or keyway dimensions as does the English system; instead, dimensions are given for the key itself, which is rectangular in shape and not square as in the English system. This meets ISO Standards, except nominal diameters over 13 up to 16 included(metric bore).

X= Stock Bore with Standard Keyway. N= Stock Bore with No Keyway.

S= Stock Bore with Shallow Keyway; Rectangular Key is furnished to fit Standard keyseat.

SPLIT TAPER (PST) STEEL BUSHINGS



PART NO.	DIMENSIONS												BORE RANGE		NO.	SIZE	AV. WT. LBS.	WRENCH TORQUE IN.-LBS.
	L	U	T	D		H	V	W	X	Y	R	S	TYPE 1	TYPE 2				
				LARGE END	SMALL END													
G	1	1/4	3/4	1.172	1.1330	2	1 9/16	--	5/8	3 16	1/8	3/16	3/8- 15/16	1	2	1/4 x 5/8	0.50	95.00
H	1 1/4	1/4	1	1.625	1.5700	2 1/2	2	--	7/8	3 1/6	1/8	3/16	3/8 - 1 3/8	1 7/16 - 1 1/2	2	1/4 x 3/4	0.80	95.00
P1	1 15/16	13/32	1 17/32	1.938	1.8555	3	2 7/16	3/8"	1 5/16	7/32	7/32	1/4	1/2 - 1 7/16	1 1/2- 1 3/4	3	5/16 x 1	1.30	192.00
P2	2 15/16	13/32	2 17/32	1.938	1.7930	3	2 7/16	3/8	2 5/16	7/32	7/32	1/4	3/4 - 1 7/16	1 1/2- 1 3/4	3	5/16 x 1	1.50	192.00
P3	4 7/16	13/32	4 1/32	1.938	1.6993	3	2 7/16	3/8	3 13/16	7/32	7/32	1/4	1 1/8 - 1 3/8	1 5/8	3	5/16 x 1	2.00	192.00
B	1 15/16	1/2	1 7/16	2.625	2.5567	3 11/16	3 1/8	1/2	1 3/16	7/32	1/4	1/4	1/2 - 1 15/16	2 - 2 7/16	3	5/16 x 1 1/4	1.80	192.00
Q1	2 1/2	17/32	1 31/32	2.875	2.7657	4 1/8	3 3/8	1/2	1 3/4	7/32	7/32	9/32	3/4 - 2 1/16	2 1/8 - 2 11/16	3	3/8 x 1 1/4	3.50	348.00
Q2	3 1/2	17/32	2 31/32	2.875	2.7032	4 1/8	3 3/8	1/2	2 3/4	7/32	7/32	9/32	1 - 2 1/16	2 1/8 - 2 5/8	3	3/8 x 1 1/4	4.50	348.00
Q3	5	17/32	4 15/32	2.875	2.6094	4 1/8	3 3/8	1/2	4 1/4	7/32	7/32	9/32	1 3/8 - 2 1/16	2 1/8 - 2 1/2	3	3/8 x 1 1/4	5.50	348.00
R1	2 7/8	5/8	2 1/4	4.000	3.8750	5 3/8	4 5/8	3/4	2	1/4	1/4	9/32	1 1/8 - 2 13/16	2 7/8 - 3 3/4	3	3/8 x 1 1/4	7.50	348.00
R2	4 7/8	5/8	4 1/4	4.000	3.7500	5 3/8	4 5/8	3/4	4	1/4	1/4	9/32	1 3/8 - 2 13/16	2 7/8 - 3 5/8	3	3/8 x 1 1/4	11.00	348.00
S1	4 3/8	3/4	3 5/8	4.625	4.4180	6 3/8	5 3/8	3/4	3 5/16	5/16	5/16	3/8	1 11/16 - 3 3/16	3 1/4 - 4 1/4	3	1/2 x 2 1/4	13.50	840.00
S2	6 3/4	3/4	6	4.625	4.2696	6 3/8	5 3/8	3/4	5 11/16	5/16	5/16	3/8	1 7/8 - 3 3/16	3 1/4 - 4 3/16	3	1/2 x 2 1/4	19.00	840.00
U0	5 1/4	1 1/16	4 3/16	6.000	5.7656	8 3/8	7	1 1/4	3 3/4	7/16	7/16	15/32	2 3/8 - 3 1/16	--	3	5/8 x 2 3/4	30.00	1680.00
U0	4 15/16	3/4	4 3/16	6.000	5.7656	8 3/8	7	1 1/4	3 3/4	7/16	7/16	15/32	3 1/4 - 4 1/4	4 3/8 - 5 1/2	3	5/8 x 2 3/4	27.00	1680.00
U1	7 1/8	1 1/16	6 1/16	6.000	5.6485	8 3/8	7	1 1/4	5 5/8	7/16	7/16	15/32	2 3/8 - 4 1/4	4 3/8 - 5 1/2	3	5/8 x 2 3/4	40.00	1680.00
U2	10 1/8	1 1/16	9 1/16	6.000	5.4610	8 3/8	7	1 1/4	8 5/8	7/16	7/16	15/32	2 7/16 - 4 1/4	4 3/8 - 5	3	5/8 x 2 3/4	50.00	1680.00
W1	8 1/4	1 7/16	6 13/16	8.500	8.1016	12 1/2	10	1 1/4	6 3/8	7/16	7/16	9/16	3 3/8 - 6 3/16	6 1/4 - 7 7/16	4	3/4 x 3	104.00	3000.00
W2	11 1/4	1 7/16	9 13/16	8.500	7.9141	12 1/2	10	1 1/4	9 3/8	7/16	7/16	9/16	3 3/8 - 6 3/16	6 1/4 - 7 7/16	4	3/4 x 3	133.00	3000.00
Y0*	11 1/8	2	9 1/8	12.000	11.4688	16 1/2	14 1/2	2	8 1/2	5/8	5/8	5/8	6 - 7 15/16	8 - 10	4	1 x 5	270.00	7200.00

SPLIT TAPER (PST) STEEL BUSHINGS

STOCK INCH BORE BUSHING

STOCK BORES	KEY SEAT	G	H	P1	P2	P3	B	Q1	Q2	Q3	R1	R2	S1
3/8	NONE	x	x	-	-	-	-	-	-	-	-	-	-
7/16	NONE	x	x	-	-	-	-	-	-	-	-	-	-
1/2	1/8 x 1/16	x	x	x	-	-	x	-	-	-	-	-	-
9/16	1/8 x 1/16	x	x	x	-	-	x	-	-	-	-	-	-
19/32	3/16 x 3/32	-	x	-	-	-	-	-	-	-	-	-	-
5/8	3/16 x 3/32	x	x	x	-	-	x	-	-	-	-	-	-
21/32	3/16 x 3/32	-	x	x	-	-	-	-	-	-	-	-	-
(11/16)	3/16 x 3/32	x	x	x	-	-	x	-	-	-	-	-	-
3/4	3/16 x 3/32	x	x	x	x	-	x	x	-	-	-	-	-
25/32	3/16 x 3/32	-	x	x	-	-	-	-	-	-	-	-	-
(13/16)	3/16 x 3/32	x	x	x	x	-	x	x	-	-	-	-	-
7/8	3/16 x 3/32	x	x	x	x	-	x	x	-	-	-	-	-
(15/16)	1/4 x 1/8	x*	x	x	x	-	x	x	-	-	-	-	-
31/32	1/4 x 1/8	-	x	x	-	-	-	-	-	-	-	-	-
1	1/4 x 1/8	x*	x	x	x	-	x	x	x	-	-	-	-
1 (1/16)	1/4 x 1/8	-	x	x	x	-	x	x	x	-	-	-	-
1 1/8	1/4 x 1/8	-	x	x	x	x	x	x	x	-	x	-	-
1 (3/16)	1/4 x 1/8	-	x	x	x	-	x	x	x	-	x	-	-
1 1/4	1/4 x 1/8	-	x*	x	x	-	x	x	x	-	x	-	-
1 (5/16)	5/16 x 5/32	-	x*	x	x	-	x	x	x	-	x	-	-
1 3/8	5/16 x 5/32	-	x*	x	x	x*	x	x	x	x	x	x	-
1 3/8	3/8 x 3/16	-	x*	x	x	-	x	x	x	-	x	-	-
1 7/16	3/8 x 3/16	-	x*	x	x*	-	x	x	x	x	x	x	-
1 1/2	3/8 x 3/16	-	x*	x	x	-	x	x	x	x	x	x	-
1 9/16	3/8 x 3/16	-	-	x	x	-	x	x	x	x	x	x	-
1 5/8	3/8 x 3/16	-	-	x	x	x	x	x	x	x	x	x	-
1 11/16	3/8 x 3/16	-	-	x	x	-	x	x	x	x	x	x	x
1 3/4	3/8 x 3/16	-	-	x	x	-	x	x	x	x	x	x	x

STOCK BORES	KEY SEAT	R1	R2	S1	S2	U0	U1	U2	W1	W2
3 3/8	7/8 x 7/16	x	x	x	x	x	x	x	x	x
3 7/16	7/8 x 7/16	x	x	x	x	x	x	x	x	x
3 1/2	7/8 x 7/16	x	x	x	x	x	x	x	x	x
3 5/8	7/8 x 7/16	x	x	x	x	x	x	x	x	x
3 11/16	7/8 x 7/16	x	-	x	x	x	x	x	x	x
3 3/4	7/8 x 7/16	x	-	x	x	x	x	x	x	x
3 7/8	1 x 1/2	-	-	x	x	x	x	x	x	x
3 15/16	1 x 1/2	-	-	x	x	x	x	x	x	x
4	1 x 1/2	-	-	x	x	x	x	x	x	x
4 1/8	1 x 1/2	-	-	x	x	x	x	x	x	x
4 3/16	1 x 1/2	-	-	x	x	x	x	x	x	x
4 1/4	1 x 1/2	-	-	x	-	x	x	x	x	x
4 3/8	1 x 1/2	-	-	-	-	x	x	x	x	x
4 7/16	1 x 1/2	-	-	-	-	x	x	x	x	x
4 1/2	1 x 1/2	-	-	-	-	x	x	x	x	x
4 5/8	1 1/4 x 5/8	-	-	-	-	x	x	x	x	x
4 11/16	1 1/4 x 5/8	-	-	-	-	x	x	x	-	-
4 3/4	1 1/4 x 5/8	-	-	-	-	x	x	x	x	x
4 7/8	1 1/4 x 5/8	-	-	-	-	x	x	x	x	x
4 15/16	1 1/4 x 5/8	-	-	-	-	x	x	x	x	x
5	1 1/4 x 5/8	-	-	-	-	x	x	x	x	x

STOCK BORES	KEY SEAT	U0	U1	W1	W2
5 1/8	1 1/4 x 5/8	x	x	x	x
5 3/16	1 1/4 x 5/8	x	x	x	x
5 1/4	1 1/4 x 5/8	x	x	x	x
5 3/8	1 1/4 x 5/8	x	x	x	x
5 7/16	1 1/4 x 5/8	x	x	x	x
5 1/2	1 1/4 x 5/8	x	x	x	x

Stock Millimeter Bore Bushings

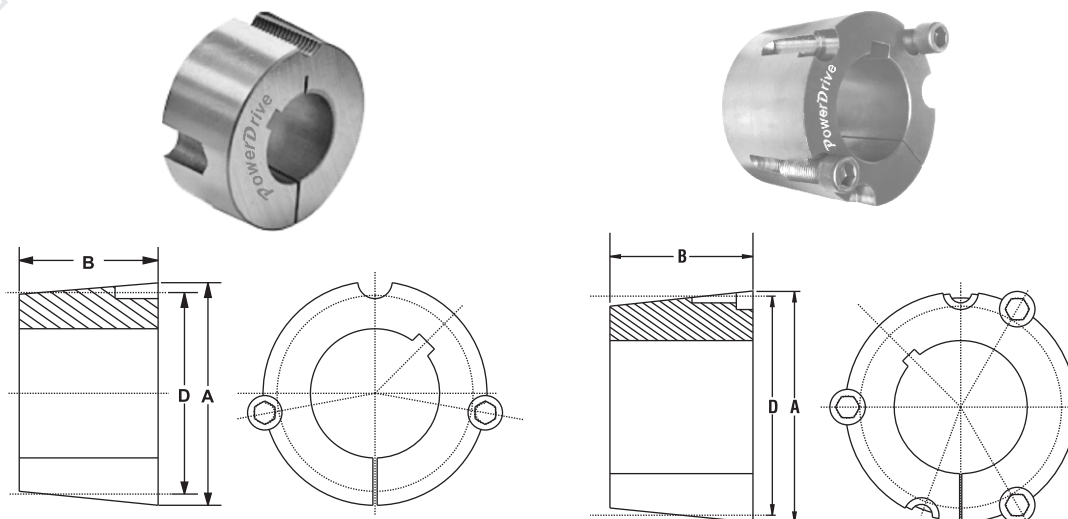
STOCK BORES	KEY SEAT	B	Q1	Q2	Q3	R1	R2	S1	S2	U0	U1	U2
1 13/16	1/2 x 1/4	x	x	x	x	x	x	-	-	-	-	-
1 7/8	1/2 x 1/4	x	x	x	x	x	x	x	x	-	-	-
1 15/16	1/2 x 1/4	x	x	x	x	x	x	x	x	-	-	-
2	1/2 x 1/4	x	x	x	x	x	x	x	x	-	-	-
2 1/16	1/2 x 1/4	x	x	x	x	x	x	-	-	-	-	-
2 1/8	1/2 x 1/4	x	x	x	x	x	x	x	x	-	-	-
2 3/16	1/2 x 1/4	x	x	x	x	x	x	x	x	-	-	-
2 1/4	1/2 x 1/4	x	x	x	x	x	x	x	x	-	-	-
2 5/16	5/8 x 5/16	x	x	x	x	x	x	x	x	-	-	-
2 3/8	5/8 x 5/16	x	x	x	x	x	x	x	x	x	x	-
2 7/16	5/8 x 5/16	x	x	x	x	x	x	x	x	x	x	x
2 1/2	5/8 x 5/16	-	x	x	x	x	x	x	x	x	x	x
2 9/16	5/8 x 5/16	-	x	x	-	x	x	x	x	x	x	x
2 5/8	5/8 x 5/16	-	x	x	-	x	x	x	x	x	x	x
2 11/16	5/8 x 5/16	-	x	-	-	x	x	x	x	x	x	x
2 3/4	5/8 x 5/16	-	-	-	-	x	x	x	x	x	x	x
2 13/16	3/4 x 3/8	-	-	-	-	x	x	-	-	-	-	-
2 7/8	3/4 x 3/8	-	-	-	-	x	x	x	x	x	x	x
2 15/16	3/4 x 3/8	-	-	-	-	x	x	x	x	x	x	x
3	3/4 x 3/8	-	-	-	-	x	x	x	x	x	x	x
3 1/8	3/4 x 3/8	-	-	-	-	x	x	x	x	x	x	x
3 3/16	3/4 x 3/8	-	-	-	-	x	x	x	x	x	x	x
3 1/4	3/4 x 3/8	-	-	-	-	x	x	x	x	x	x	x

STOCK BORES	KEY SEAT	W1	W2
5 5/8	1 1/2 x 3/4	x	x
5 3/4	1 1/2 x 3/4	x	x
5 7/8	1 1/2 x 3/4	x	x
5 15/16	1 1/2 x 3/4	x	x
6	1 1/2 x 3/4	x	x
6 1/8	1 1/2 x 3/4	x	x
6 3/16	1 1/2 x 3/4	x	x
6 1/4	1 1/2 x 3/4	x	x
6 3/8	1 1/2 x 3/4	x	x
6 7/16	1 1/2 x 3/4	x	x
6 1/2	1 1/2 x 3/4	x	x
6 3/8	1 3/4 x 3/4	x	x
6 7/16	1 3/4 x 3/4	x	x
6 1/2	1 3/4 x 3/4	x	x
6 5/8	1 3/4 x 3/4	x	x
6 3/4	1 3/4 x 3/4	x	x
6 7/8	1 3/4 x 3/4	x	x
6 15/16	1 3/4 x 3/4	x	x
7	1 3/4 x 3/4	x	x
7 1/8	1 3/4 x 3/4	x	x
7 3/16	1 3/4 x 3/4	x	x
7 1/4	1 3/4 x 3/4	x	x
7 3/8	1 3/4 x 3/4	x	x
7 7/16	1 3/4 x 3/4	x	x

Stock Bores	Keyseat (Millimeters)	G	H	P1	B	Q1	R1	R2
10mm.	None	x	x	-	-	-	-	-
11mm.	None	x	x	-	-	-	-	-
12mm.	None	x	x	-	-	-	-	-
14mm.	5x25	x	x	x	-	-	-	-
15mm.	5x25	-	-	x	x	-	-	-
16mm.	5x25	x	x	x	x	-	-	-
17mm.	5x25	x	x	x	x	-	-	-
18mm.	6x3	x	x	x	x	x	-	-
19mm.	6x3	x	x	x	x	x	-	-
20mm.	6x3	x	x	x	x	x	-	-
22mm.	6x3	x	x	x	x	x	-	-
24mm.	8x3.5	x	x	x	x	x	-	-
25mm.	8x3.5	x	x	x	x	x	-	-
28mm.	8x3.5	-	x	x	x	x	x	-
30mm.	8x3.5	-	x	x	x	x	x	-
32mm.	10x4	-	x	x	x	x	x	-
35mm.	10x4	-	x	x	x	x	x	x
36mm.	10x4	-	x	x	x	x	x	x
38mm.	10x4	-	x	x	x	x	x	x
39mm.	12x4	-	x	x	x	-	x	x
40mm.	12x4	-	-	x	x	x	x	x
42mm.	12x4	-	-	x	x	x	x	x
45mm.	14x4.5	-	-	-	x	x	x	x
48mm.	14x4.5	-	-	-	x	x	x	x
50mm.	14x4.5	-	-	-	x	x	x	x
55mm.	16x5	-	-	-	x	x	x	x
60mm.	18x5.5	-	-	-	x	x	x	x
65mm.	18x5.5	-	-	-	-	x	x	x
70mm.	20x6	-	-	-	-	-	x	x
75mm.	20x6	-	-	-	-	-	-	x
80mm.	22x7	-	-	-	-	-	-	x
85mm.	22x7	-	-	-	-	-	-	x
90mm.	25x7	-	-	-	-	-	-	x
95mm.	25x7	-	-	-	-	-	-	x

* These sizes have a Shallow Keyseat. Special Keys are furnished to fit standard depth keyseats in shafts.

■ 1 3/8 Bore Bushings with 5/16 x 5/32" Keyway will be shipped unless the 3/8 x 3/16 Keyway is specified on the order.

TAPER LOCK (TL®) BUSHING

1008 THROUGH 3030
3535 THROUGH 5050

BUSHING NO.	A	B	D BOLT CIRCLE	CAPSCREWS		STOCK BORE RANGE			WRENCH TOQUE IN. LBS.	TORQUE CAP LB. IN.	WGT. (APX.) LBS.
						MIN.	MAX.				
				DIA.	LENGTH		STD. KW.	SHALLOW KW.			
1008	1 25/64	7/8	1 21/64	1/4	1/2	1/2	7/8	1	55	1,200	0.27
1108	1.511	7/8	1 29/64	1/4	1/2	1/2	1	1 1/8	55	1,300	0.33
1210	1/78	1	1 3/4	3/8	5/8	1/2	1 1/4	1 1/4	175	3,600	0.61
1215	1 7/8	1 1/2	1 3/4	3/8	5/8	1/2	1 1/4	1 1/4	175	3,550	0.80
1310	2	1	1 7/16	3/8	5/8	1/2	1 7/16	1 7/16	175	3850	0.85
1610	2 1/4	1	2 1/8	3/8	5/8	1/2	1 1/2	1 5/8	175	4,300	0.90
1615	2 1/4	1 1/2	2 1/8	3/8	5/8	1/2	1 1/2	1 5/8	175	4,300	1.20
2012	2 3/4	1 1/4	2 5/8	7/16	7/8	1/2	1 7/8	2	280	7,150	1.70
2517	3 3/8	1 3/4	3 1/4	1/2	1	1/2	2 1/4	2 1/2	430	11,600	3.50
2525	3 3/8	2 1/2	3 1/4	1/2	1	3/4	2 1/4	2 1/2	430	11,300	4.90
3020	4 1/4	2	4	5/8	1 1/4	15/16	2 3/4	3	800	24,000	6.50
3030	4 1/4	3	4	5/8	1 1/4	15/16	2 3/4	3	800	24,000	9.20
3535	5	3 1/2	4.83	1/2	1 1/2	1 3/16	3 1/4	3 1/2	1000	44,800	14.0
4040	5 3/4	4	5.54	5/8	1 3/4	1 7/16	3 5/8	4	1700	77,300	22.0
4545	6 3/8	4 1/2	6.13	3/4	2	1 15/16	4 1/4	4 1/2	2450	110,000	30.0
5050	7	5	6.72	7/8	2 1/4	2 7/16	4 1/2	5	3100	126,000	38.0

STANDARD KEYSEATS

BORE RANGE	KEYSEAT	BORE RANGE	KEYSEAT
1/2 - 9/16	1/8 x 1/16	2 5/16-2 3/4	5/8 x 5/16
5/8 - 7/8	3/16 x 3/32	2 13/16-3 1/4	3/4 x 3/8
15/16-1 1/4	1/4 x 1/8	3 3/8 -3 3/4	7/8 x 7/16
1 5/16-1 3/8	5/16 x 5/32	3 7/8 -4 1/2	1 x 1/2
1 7/16-1 3/4	3/8 x 3/16	4 5/8 -5	1 1/4 x 5/8
1 13/16-2 1/4	1/2 x 1/4		

1 3/8 Bore Bushings also available with 3/8X3/16 Kw.

TAPER LOCK (TL®) BUSHING

STOCK BORES BUSHING

STOCK BORE	1008	1108	1210	1215	1310	1610	1615	2012	2517	2525	3020	3030	3535
1/2	X	X	X	X	X	X	X	X	X	-	-	-	-
9/16	X	X	X	X	X	X	X	X	X	-	-	-	-
5/8	X	X	X	X	X	X	X	X	X	-	-	-	-
11/16	X	X	X	X	X	X	X	X	X	-	-	-	-
3/4	X	X	X	X	X	X	X	X	X	X	-	-	-
13/16	X	X	X	X	X	X	X	X	X	X	-	-	-
7/8	X	X	X	X	X	X	X	X	X	X	-	-	-
15/16	X	X	X	X	X	X	X	X	X	X	X	X	-
1	X	X	X	X	X	X	X	X	X	X	X	X	-
1 1/16	-	X	X	X	X	X	X	X	X	X	X	X	-
1 1/8	-	X	X	X	X	X	X	X	X	X	X	X	-
1 3/16	-	-	X	X	X	X	X	X	X	X	X	X	X
1 1/4	-	-	X	X	X	X	X	X	X	X	X	X	X
1 5/16	-	-	-	-	X	X	X	X	X	X	X	X	X
1 3/8	-	-	-	-	X	X	X	X	X	X	X	X	X
STOCK BORE	1310	1610	1615	2012	2517	2525	3020	3030	3535	4040	4545	5050	
1 7/16	X	X	X	X	X	X	X	X	X	X	-	-	
1 1/2	-	X	X	X	X	X	X	X	X	X	-	-	
1 9/16	-	X	X	X	X	X	X	X	X	X	-	-	
1 5/8	-	X	X	X	X	X	X	X	X	X	-	-	
1 11/16	-	-	-	X	X	X	X	X	X	X	-	-	
1 3/4	-	-	-	X	X	X	X	X	X	X	-	-	
1 13/16	-	-	-	X	X	X	X	X	-	X	-	-	
1 7/8	-	-	-	X	X	X	X	X	X	X	-	-	
1 15/16	-	-	-	X	X	X	X	X	X	X	X	-	
2	-	-	-	-	X	X	X	X	X	X	X	X	
2 1/16	-	-	-	-	X	X	X	X	X	-	-	-	
2 1/8	-	-	-	-	X	X	X	X	X	X	-	-	
2 3/16	-	-	-	-	X	X	X	X	X	X	X	-	
2 1/4	-	-	-	-	X	X	X	X	X	X	-	-	
2 5/16	-	-	-	-	X	X	X	X	X	X	-	-	
2 3/8	-	-	-	-	X	X	X	X	X	X	X	-	
2 7/16	-	-	-	-	X	X	X	X	X	X	X	X	
2 1/2	-	-	-	-	X	X	X	X	X	X	-	X	
2 9/16	-	-	-	-	-	-	X	X	-	X	-	-	
2 5/8	-	-	-	-	-	-	X	X	X	X	X	-	

STOCK BUSHING BORES

STOCK BORE	3020	3030	3535	4040	4545	5050
2 11/16	X	X	X	X	-	-
2 3/4	X	X	X	X	X	-
2 13/16	X	X	-	X	-	-
2 7/8	X	X	X	X	X	-
2 15/16	X	X	X	X	X	X
3	X	X	X	X	X	-
3 1/16	-	-	X	-	-	-
3 1/8	-	-	X	X	X	-
3 3/16	-	-	X	X	X	-
3 1/4	-	-	X	X	X	-
3 5/16	-	-	X	X	-	-
3 3/8	-	-	X	X	X	X
3 7/16	-	-	X	X	X	X
3 1/2	-	-	X	X	X	-
3 9/16	-	-	-	X	-	-
3 5/8	-	-	-	X	X	X
3 11/16	-	-	-	X	X	-
3 3/4	-	-	-	X	X	-
3 13/16	-	-	-	X	-	-
3 7/8	-	-	-	X	X	X
3 15/16	-	-	-	X	X	X
4	-	-	-	X	X	X
4 1/8	-	-	-	-	X	-
4 3/16	-	-	-	-	X	-
4 1/4	-	-	-	-	X	X
4 3/8	-	-	-	-	X	X
4 7/16	-	-	-	-	X	X
4 1/2	-	-	-	-	X	X
4 7/8	-	-	-	-	-	X
4 15/16	-	-	-	-	-	X
5	-	-	-	-	-	X

Stock Millimeter Bore Bushings

Stock BORE	KEYSEAT (Millimeter)	1008	1108	1210	1215	1310	1610	1615	2012	2517	2525	3020	3030	3535	4040	4545	5050
12mm	4 X 4	-	X	-	-	-	-	X	-	-	-	-	-	-	-	-	-
14mm	5 X 5	X	X	X	-	X	X	X	X	-	-	-	-	-	-	-	-
15mm	5 X 5	X	X	X	-	X	X	X	X	-	-	-	-	-	-	-	-
16mm	5 X 5	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
18mm	6 X 6	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
19mm	6 X 6	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
20mm	6 X 6	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
22mm	6 X 6	X	X	X	X	X	X	X	X	-	-	-	-	-	-	-	-
24mm	8 X 7	X	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-
25mm	8 X 7	-	X	X	X	X	X	X	X	X	X	-	-	-	-	-	-
28mm	8 X 7	-	-	X	X	X	X	X	X	X	X	-	-	-	-	-	-
30mm	8 X 7	-	-	X	X	X	X	X	X	X	X	-	-	-	-	-	-
32mm	10 X 8	-	-	X	X	X	X	X	X	X	X	-	-	-	-	-	-
35mm	10 X 8	-	-	-	-	X	X	X	X	X	X	-	-	-	-	-	-
38mm	10 X 8	-	-	-	-	X	X	X	X	X	X	-	-	-	-	-	-
40mm	12 X 8	-	-	-	-	X	X	X	X	X	X	-	-	-	-	-	-
42mm	12 X 8	-	-	-	-	-	X	X	X	X	X	-	-	-	-	-	-
45mm	14 X 9	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-
48mm	14 X 9	-	-	-	-	-	-	X	X	X	X	-	-	-	-	-	-
50mm	14 X 9	-	-	-	-	-	-	-	X	X	X	-	-	-	-	-	-
55mm	16 X 10	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X	X
60mm	18 X 11	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X	X
65mm	18 X 11	-	-	-	-	-	-	-	-	X	-	X	X	X	X	X	X
70mm	20 X 12	-	-	-	-	-	-	-	-	-	X	X	X	X	X	X	X
75mm	20 X 12	-	-	-	-	-	-	-	-	-	-	X	X	X	X	X	X
80mm	22 X 14	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X	X
85mm	22 X 14	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X	X
90mm	25 X 14	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
95mm	25 X 14	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
100mm	28 X 16	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
110mm	28 X 16	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X	X
115mm	32 X 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X
120mm	32 X 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X	X
125mm	32 X 18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-