

B117 SERIES



B-LOC[®]

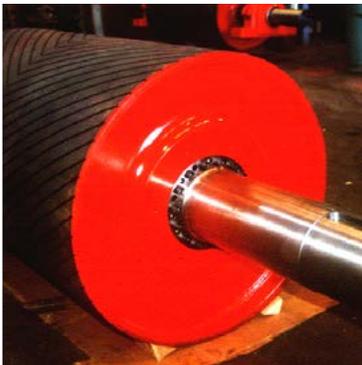
KEYLESS BUSHINGS

FOR Engineered Pulleys IN THE Mining Industry



The mining industry is extremely demanding and peak performance under pressure is critical. To combat the intense weights, torque and stress your engineered pulleys encounter you deserve the peace of mind knowing they are mounted with the best: B-LOC B117 Keyless Bushings. Check out the proven advantages:

- ◆ Highest bending moment capacity of all internal units ($M_b = 0.65 \times Mt$)
- ◆ Exceptional concentricity and ability to transmit bending loads
- ◆ Shorter length than other locking assemblies with two tapers
- ◆ Continuous inner promotes ease of removal
- ◆ Allows reduced hub width in pulley end discs. This leads to lower material cost (narrower forgings) and lower machining cost (less material removal to make flexible).
- ◆ No axial movement during installation
- ◆ Self-locking and self-centering
- ◆ Allows for use of smaller shafts, meaning lower material cost and more flexible end discs
- ◆ Torque capacity up to 1,000,000 Nm
- ◆ RoHS compliant



Excellence

from the brand you trust...
B-LOC from Fenner Drives



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KEYLESS BUSHINGS

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Metric socket head locking screws
ISO 4762 grade 12.9
(See M_a for install torque).

Screw head height = screw diameter (mm)

B117 – High-Bending – Metric

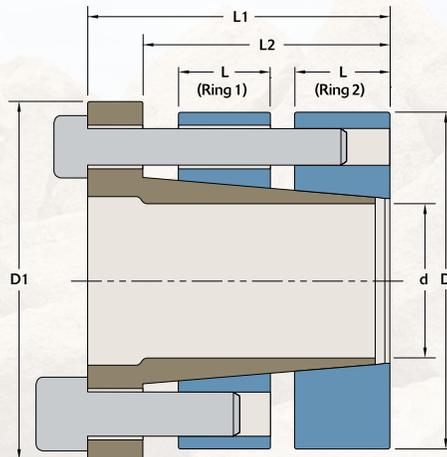
Part Number	d (mm)	D (mm)	D ₁ (mm)	L (mm)	L ₁ (mm)	L ₂ (mm)	Locking Screws						M _{t1}	M _{t2}	M _{ttot}	Th ₁	Th ₂	Th _{tot}	P _{h1}	P _{h2}	Shipping Weight (kg)								
							SIZE 1			SIZE 2												Maximum Transmitted			Maximum Transmitted				
							Qty.	Size	M _a Install Torque (Nm)	Qty.	Size	M _a Install Torque (Nm)										Torque (Nm)	Torque (Nm)	Torque (Nm)	Thrust (N)	Thrust (N)	Thrust (N)	Hub Pressure (N/mm ²)	Hub Pressure (N/mm ²)
B171180	180	250	256	40	122	92	8	M20 x 70	678	8	M16 x 110	348	51569	33128	84697	572990	368088	941078	152	98	21								
B171190	190	270	276	40	122	92	10	M20 x 70	678	10	M16 x 110	348	68043	43710	111753	716238	460110	1176347	176	113	22								
B171200	200	270	276	40	122	92	10	M20 x 70	678	10	M16 x 110	348	71624	46011	117635	716238	460110	1176347	176	113	23								
B171220	220	290	296	40	122	92	10	M20 x 70	678	10	M16 x 110	348	78786	50612	129398	716238	460110	1176347	164	105	25								
B171240	240	310	316	40	122	92	12	M20 x 70	678	12	M16 x 110	348	103138	66256	169394	859485	552132	1411617	184	118	28								
B171260	260	330	336	40	122	92	12	M20 x 70	678	12	M16 x 110	348	111733	71777	183510	859485	552132	1411617	173	111	29								
B171280	280	365	371	45	144	108	10	M24 x 80	1180	10	M20 x 130	678	145918	100273	246192	1042274	716238	1758512	168	116	45								
B171300	300	385	391	45	144	108	10	M24 x 80	1180	10	M20 x 130	678	156341	107436	263777	1042274	716238	1758512	160	110	48								
B171340	340	425	431	45	144	108	14	M24 x 80	1180	14	M20 x 130	678	248061	170465	418526	1459184	1002733	2461917	202	139	54								
B171380	380	465	471	45	144	108	16	M24 x 80	1180	16	M20 x 130	678	316851	217736	534588	1667639	1145980	2813619	211	145	58								
B171400	400	485	491	45	144	108	16	M24 x 80	1180	16	M20 x 130	678	333528	229196	562724	1667639	1145980	2813619	203	139	62								
B171420	420	505	511	45	144	108	16	M24 x 80	1180	16	M20 x 130	678	350204	240656	590860	1667639	1145980	2813619	195	134	65								
B171440	440	525	531	59	178	147	16	M24 x 100	1180	16	M20 x 150	678	366881	252116	618996	1667639	1145980	2813619	143	98	82								
B171460	460	545	551	59	178	147	16	M24 x 100	1180	16	M20 x 150	678	383557	263575	647132	1667639	1145980	2813619	138	95	85								
B171480	480	565	571	59	178	147	16	M24 x 100	1180	16	M20 x 150	678	400233	275035	675269	1667639	1145980	2813619	133	91	90								
B171500	500	585	591	59	178	147	18	M24 x 100	1180	18	M20 x 150	678	469023	322307	791330	1876094	1289228	3165322	144	99	93								
B171520	520	605	611	59	178	147	18	M24 x 100	1180	18	M20 x 150	678	487784	335199	822984	1876094	1289228	3165322	139	96	97								
B171540	540	625	631	59	178	147	18	M24 x 100	1180	18	M20 x 150	678	506545	348092	854637	1876094	1289228	3165322	135	93	100								
B171560	560	645	651	59	178	147	18	M24 x 100	1180	18	M20 x 150	678	525306	360984	886290	1876094	1289228	3165322	131	90	103								
B171580	580	665	671	59	178	147	20	M24 x 100	1180	20	M20 x 150	678	604519	415418	1019937	2084549	1432475	3517024	141	97	107								
B171600	600	685	691	59	178	147	20	M24 x 100	1180	20	M20 x 150	678	625365	429743	1055107	2084549	1432475	3517024	137	94	110								

Additional sizes available upon request.

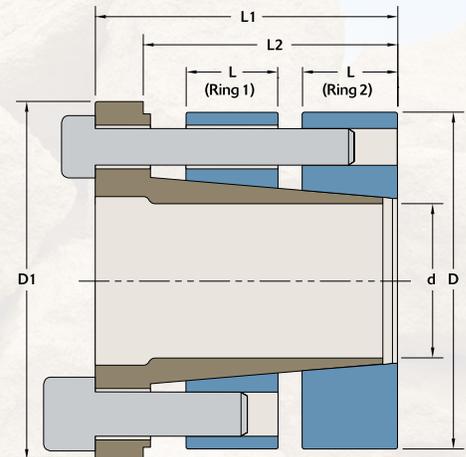
TOLERANCE (T_L)

Bore diameter machined to D -0/+T_L
 T_L = .05mm for bores up to 120mm
 .08mm for bores up to 305mm
 .10mm for bores over 305mm

d = Shaft diameter machined to d +0/-T_L



B117 Units, d ≤ 420mm



B117 Units, d ≥ 440mm



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