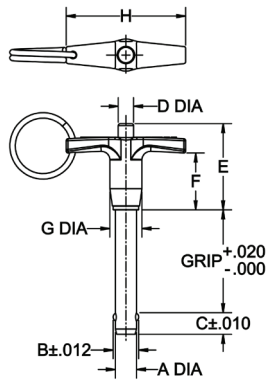


BALL LOCK PINS

1



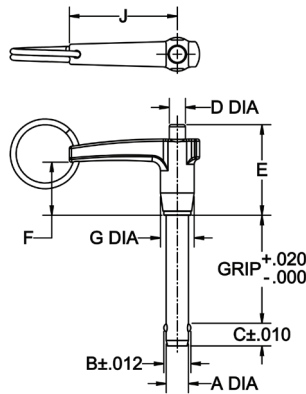
T Handle



BLPT



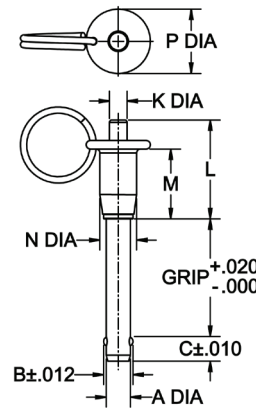
L Handle



BLPL



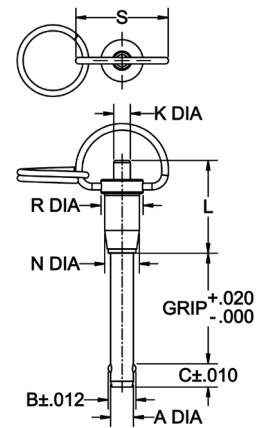
Button Handle



BLPB



Ring Handle



BLPR

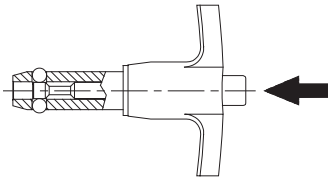
INCH

PART NO.	A DIA		B	C	D DIA	E	F	G DIA	H	J	K DIA	L	M	N DIA	P DIA	R DIA	S
	NOMINAL	ACTUAL															
CL- 3-BLPx-x.xx	3/16 (#10)	.1885/.1870	.219	.245	.22	1.26	.78	.47	1.75	1.50	.22	1.26	.89	.47	.82	.57	1.13
CL- 4-BLPx-x.xx	1/4	.2485/.2470	.290	.275	.22	1.26	.78	.47	1.75	1.50	.22	1.26	.89	.47	.82	.57	1.13
CL- 5-BLPx-x.xx	5/16	.3110/.3095	.375	.315	.27	1.47	.94	.59	2.00	1.62	.27	1.47	1.02	.59	1.00	.69	1.13
CL- 6-BLPx-x.xx	3/8	.3735/.3720	.438	.350	.27	1.47	.94	.59	2.00	1.62	.27	1.47	1.02	.59	1.00	.69	1.13
CL- 7-BLPx-x.xx	7/16	.4360/.4345	.508	.365	.39	1.61	1.06	.75	2.25	1.88	.39	1.61	1.08	.75	1.31	.82	1.33
CL- 8-BLPx-x.xx	1/2	.4985/.4970	.592	.445	.39	1.61	1.06	.75	2.25	1.88	.39	1.61	1.08	.75	1.31	.82	1.33
CL- 9-BLPx-x.xx	9/16	.5610/.5595	.666	.495	.50	1.81	1.06	.93	3.00	2.50	.50	1.81	1.25	.93	1.56	1.01	1.33
CL-10-BLPx-x.xx	5/8	.6235/.6220	.750	.565	.50	1.81	1.06	.93	3.00	2.50	.50	1.81	1.25	.93	1.56	1.01	1.33
CL-12-BLPx-x.xx	3/4	.7485/.7470	.886	.655	.71	2.07	1.25	1.31	3.50	2.90	.71	2.07	1.49	1.31	2.16	1.41	1.90
CL-14-BLPx-x.xx	7/8	.8735/.8720	1.044	.745	.71	2.07	1.25	1.31	3.50	2.90	.71	2.07	1.49	1.31	2.16	1.41	1.90
CL-16-BLPx-x.xx	1	.9985/.9970	1.217	.875	.71	2.07	1.25	1.31	3.50	2.90	.71	2.07	1.49	1.31	2.16	1.41	1.90

METRIC

BASIC PART NO.	A DIA (mm)	A DIA ACTUAL (mm)	B (mm)	C (mm)	D DIA (mm)	E (mm)	F (mm)	G DIA (mm)	H (mm)
CLM-5-BLPx-xx	5	4.96 / 4.92	5.38	6.22	5.5	32	20	12	44.5
CLM-6-BLPx-xx	6	5.96 / 5.92	7.06	6.99	5.5	32	20	12	44.5
CLM-8-BLPTx-xx	8	7.96 / 7.92	9.42	8.00	5.5	32	20	12	44.5
CLM-10-BLPTx-xx	10	9.96 / 9.92	11.91	8.89	7	37.5	24	15	51
CLM-12-BLPx-xx	12	11.96 / 11.92	14.40	11.30	7	37.5	24	15	51
CLM-16-BLPx-xx	16	15.96 / 15.92	19.00	14.35	12.5	46	27	23.5	76
CLM-20-BLPx-xx	20	19.96 / 19.92	24.08	20.19	12.5	46	27	23.5	76

BALL LOCK PINS



SHANK (STEEL): 4130 STEEL, HEAT TREATED RC 36-40, ZINC PLATED YELLOW CHROMATE;
SHANK (STAINLESS STEEL): 17-4PH STAINLESS STEEL, HEAT TREATED RC 40 MIN, PASSIVATED;
SPINDLE: 17-4PH STAINLESS STEEL, PASSIVATED; HANDLE: ALUMINUM ALLOY, BLACK FINISH;
BUTTON: ALUMINUM ALLOY, ANODIZED; COLLAR: 300-SERIES STAINLESS STEEL, PASSIVATED;
SPRING & RING: 302 STAINLESS STEEL; BALLS: 440C STAINLESS STEEL

1

Precision alignment pin with a ground shank. This popular single-acting type is positive locking until released by pushing the button, which moves the center spindle forward to allow the locking balls to retract into a radial groove. Widest range of types and sizes, in steel or stainless steel. Choice of four handle styles: T, L, Button, and Ring. Standard shank diameters from 3/16 to 1" (5 to 20mm in metric). Any grip length up to 6" (150mm in metric) is available as standard, at no extra charge. Available from stock in many standard grip lengths, or quickly made to order in custom lengths and diameters.



Options

Ball Lock Pins are optionally available in stainless steel instead of alloy steel for greater corrosion resistance. (Note: Both types have aluminum handles, and buttons.) Pins are also available with four balls instead of two, as specials, for more-distributed ball-contact force.

The optional attached Cable Assembly (-C) is 12" long (part no. CL-82-KA-12.0 if ordered separately), while the optional attached Nylon Lanyard (-NL) is 10" long (part no. CL-1-NL-10 if ordered separately). Both have an eyelet at the free end for a #10 or M5 attachment screw.

Ordering Example (INCH):

CL — 4 — BLPR — 1.50 — S — 4BALL — C

Diameter (16ths of an inch) — 4
Handle type (T, L, B, R) — BLPR
Grip length (inches) — 1.50
Add -S for stainless steel (steel is standard)
Add for 4 balls (2 are standard)
Add -C for attached Cable Assembly
or -NL for attached Nylon Lanyard

Ordering Example (Metric):

CLM — 6 — BLPR — 50 — S — 4BALL — C

Add M for metric — CLM
Diameter (mm) — 6
Handle type (T, L, B, R) — BLPR
Grip length (mm) — 50
Add -S for stainless steel (steel is standard)
Add for 4 balls (2 are standard)
Add -C for attached Cable Assembly
or -NL for attached Nylon Lanyard

STOCK GRIP LENGTHS (INCH)

PART NO. CL-X-BLP-x.x.xx	NOMINAL SHANK DIA	GRIP LENGTH (INCHES)																																				
		0.50		0.75		1.00		1.25		1.50		1.75		2.00		2.25		2.50		3.00		3.50		4.00		4.50		5.00		5.50		6.00						
		T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	
CL-3-BLP ...	3/16(#10)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-4-BLP ...	1/4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-5-BLP ...	5/16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-6-BLP ...	3/8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-7-BLP ...	7/16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-8-BLP ...	1/2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-9-BLP ...	9/16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-10-BLP ...	5/8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-12-BLP ...	3/4	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-14-BLP ...	7/8	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CL-16-BLP ...	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

STOCK GRIP LENGTHS (METRIC)

PART NO.	NOMINAL SHANK DIA	GRIP LENGTH (mm)																																			
		10				15				20				25				30				40				50				80				100			
		T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R	T	L	B	R				
CLM-5-BLPx-x.xx	5mm																																				
CLM-6-BLPx-x.xx	6mm	•	•			•	•						•	•			•	•												•	•						
CLM-8-BLPx-x.xx	8mm							•					•				•				•	•									•						
CLM-10-BLPx-x.xx	10mm												•	•			•	•			•	•									•	•					
CLM-12-BLPx-x.xx	12mm																•	•			•	•									•	•					
CLM-16-BLPx-x.xx	16mm																				•										•						
CLM-20-BLPx-x.xx	20mm																																				

• = STOCKED IN ALLOY STEEL ONLY
X = STOCKED IN ALLOY AND STAINLESS STEEL