



QUICK KNOCKOUT COUPLER

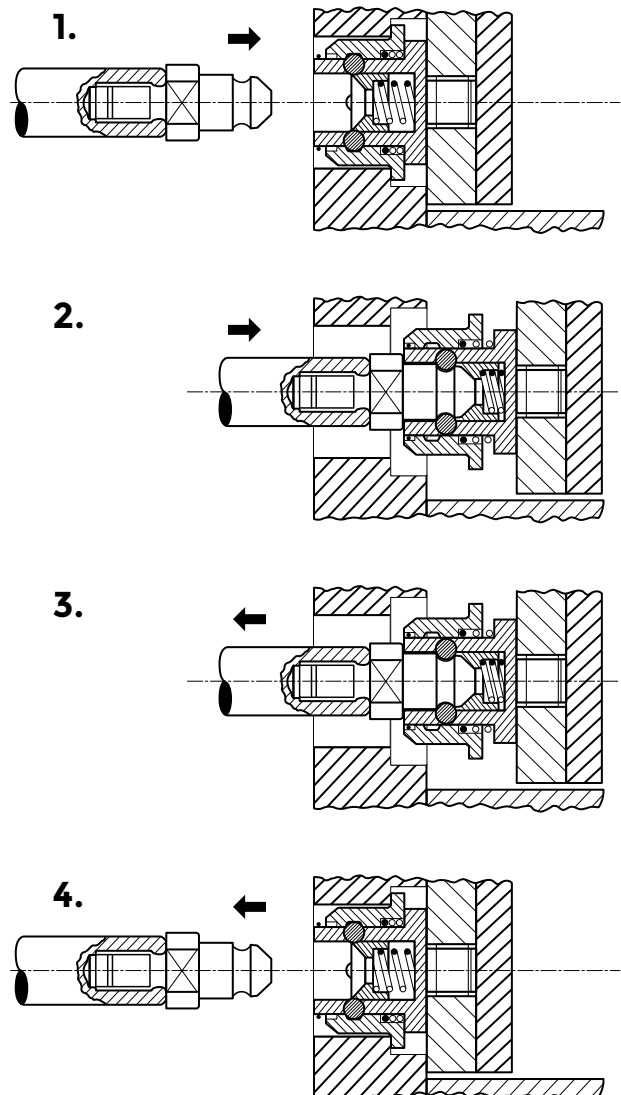


Couplers For Hydraulic or Mechanical Ejection

Uses and Advantages:

- Quick and easy installation.
- Return of ejector plate is assured.
- Part ejection is assured.
- Coupling is obtained in any position, disconnecting is made only after the ejector plate is fully returned.
- Fast acting, up to 30 strokes per minute.
- Can be used on all injection machines equipped with hydraulic or mechanical ejection.
- Set-up time can be greatly reduced.
- Reduced noise on machines with mechanical knockouts.
- Especially suited for injection machines that do not have easy access to the ejector plate.
- Allows for center ejection to be tied in.

Sequence of Operation:



Ideal for use with: Quick Mold Change Systems and Two-stage Ejection

Designed to provide a quick method of attaching the ejector plate in your mold to the ejector system in your molding machine. Provides positive ejector plate return while greatly reducing set-up time. Perfectly suited for those molding machines where the ejector plate on the machine is difficult to reach. Ideal when center ejection is desired, but impossible to "tie-in". Works with either hydraulic or mechanical ejection.

300 SERIES



ITEM NO	DESCRIPTION
PM100	301 Barb (Standard)
PM120	302 Coupler (Standard)
PM110	301 Barb (M12 X 1.75)
PM130	302 Coupler (M12 X 1.75)
PM140	302 Coupler (5/8-11 Thd)
PM145	302 Coupler (5/8-11 Thd)

400 SERIES



ITEM NO	DESCRIPTION
PM150	401 Barb (Standard)
PM170	402 Coupler (Standard)
PM160	401 Barb (M16 X 2)
PM180	402 Coupler (3/4-10 Thd)
PM190	402 Coupler (M16 X 2)
PM200	402 Coupler (M20 X 1.5)
PM210	402 Coupler (M20 X 2.5)
PM380	402 Coupler (5/8-11)

500 SERIES



ITEM NO	DESCRIPTION
PM250	501 Barb (Standard)
PM280	502 Coupler (Standard)
PM255	501 Barb (3/4-10)
PM260	501 Barb (M16 X 2.0)
PM270	501 Barb (M20 X 2.5)
PM285	502 Coupler (3/4-10)
PM290	502 Coupler (M16 X 2.0)
PM300	502 Coupler (M20 X 1.5)
PM310	502 Coupler (M20 X 2.5)

600 SERIES



ITEM NO	DESCRIPTION
PM410	601 Barb (1 1/4-7)
PM411	602 Coupler (1 1/2-12)

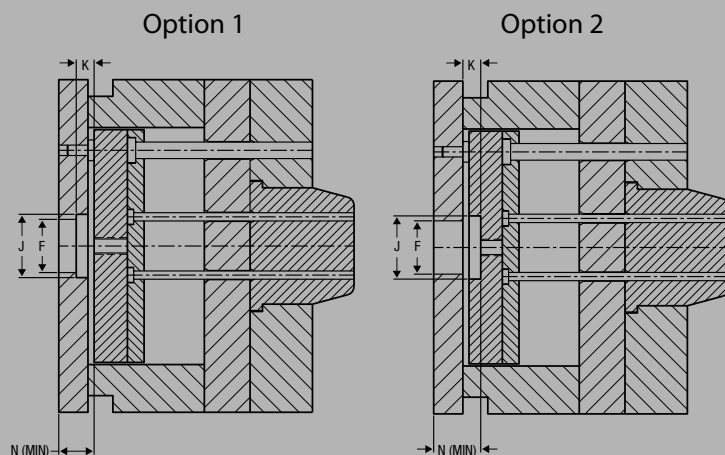
700 SERIES



ITEM NO	DESCRIPTION
PM420	701 Barb (1 1/4-7)
PM421	702 Coupler (1 1/2-12)

Installation Measurements

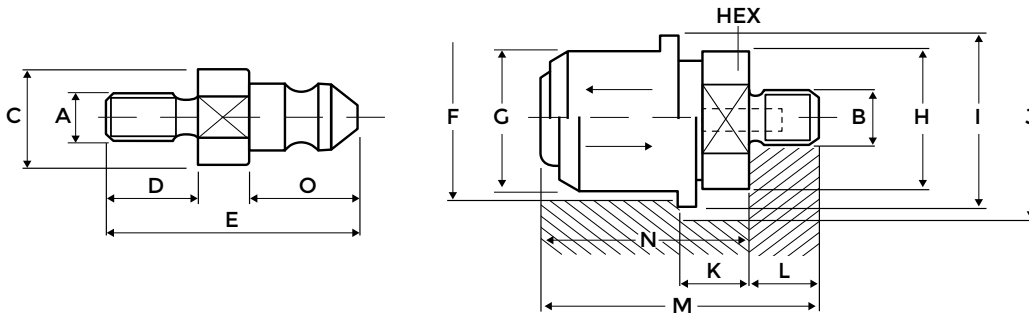
*K Dim. Tolerance $\pm .001$



Part Number	Dimensions Style	F	J	K*	N
300 SERIES					
302	Coupler	1.338	1.693	.370*	1.085
400 SERIES					
402	Coupler	1.575	1.990	.545*	1.447
500 SERIES					
502	Coupler	2.284	2.756	.715*	1.969
600 SERIES					
602	Coupler	2.598	3.110	.906*	2.503
700 SERIES					
702	Coupler	3.070	3.425	1.200*	3.112

*K Dim. check at assembly

Dimensions



300 SERIES

Part Dimensions

Number	Style	A	B	C	D	E	F	G	H	I	J	K*	L	M	N	O
301	Barb	1/2-13	-	.900	.790	1.835	-	-	-	-	-	-	-	-	-	.62
302	Coupler	-	1/2-13	-	-	-	1.338	1.260	1.260	1.575	1.693	.370*	.590	1.675	1.085	-

Note: **300 Series** Couplers for use on machines up to 75 tons. Uses 6 mm Allen wrench to tighten. Pull Force 3200 lbs.

400 SERIES

Part Dimensions

Number	Style	A	B	C	D	E	F	G	H	I	J	K*	L	M	N	O
401	Barb	5/8-11	-	1.024	.787	2.165	-	-	-	-	-	-	-	-	-	.88
402	Coupler	-	7/8-9	-	-	-	1.575	1.496	1.500	1.890	1.990	.545*	.600	2.047	1.465	-

Note: **400 Series** Couplers for use on machines up to 750 tons. Uses 8 mm Allen wrench to tighten. Pull Force 5280 lbs.

500 SERIES

Part Dimensions

Number	Style	A	B	C	D	E	F	G	H	I	J	K*	L	M	N	O
501	Barb	5/8-11	-	1.378	.984	2.677	-	-	-	-	-	-	-	-	-	1.04
502	Coupler	-	7/8-9	-	-	-	2.284	2.205	2.047	2.560	2.756	.715*	.709	2.678	1.970	-

Note: **500 Series** Couplers for use on machines over 750 tons. Uses 8 mm Allen wrench to tighten. Pull Force 7040 lbs.

600 SERIES

Part Dimensions

Number	Style	A	B	C	D	E	F	G	H	I	J	K*	L	M	N	O
601	Barb	1 1/4-7	-	1.693	1.181	3.248	-	-	-	-	-	-	-	-	-	1.358
602	Coupler	-	1 1/2-12	-	-	-	2.598	2.520	2.362	2.913	3.110	.906*	.905	3.405	2.503	-

Note: Pull Force 22,000 lbs.

700 SERIES

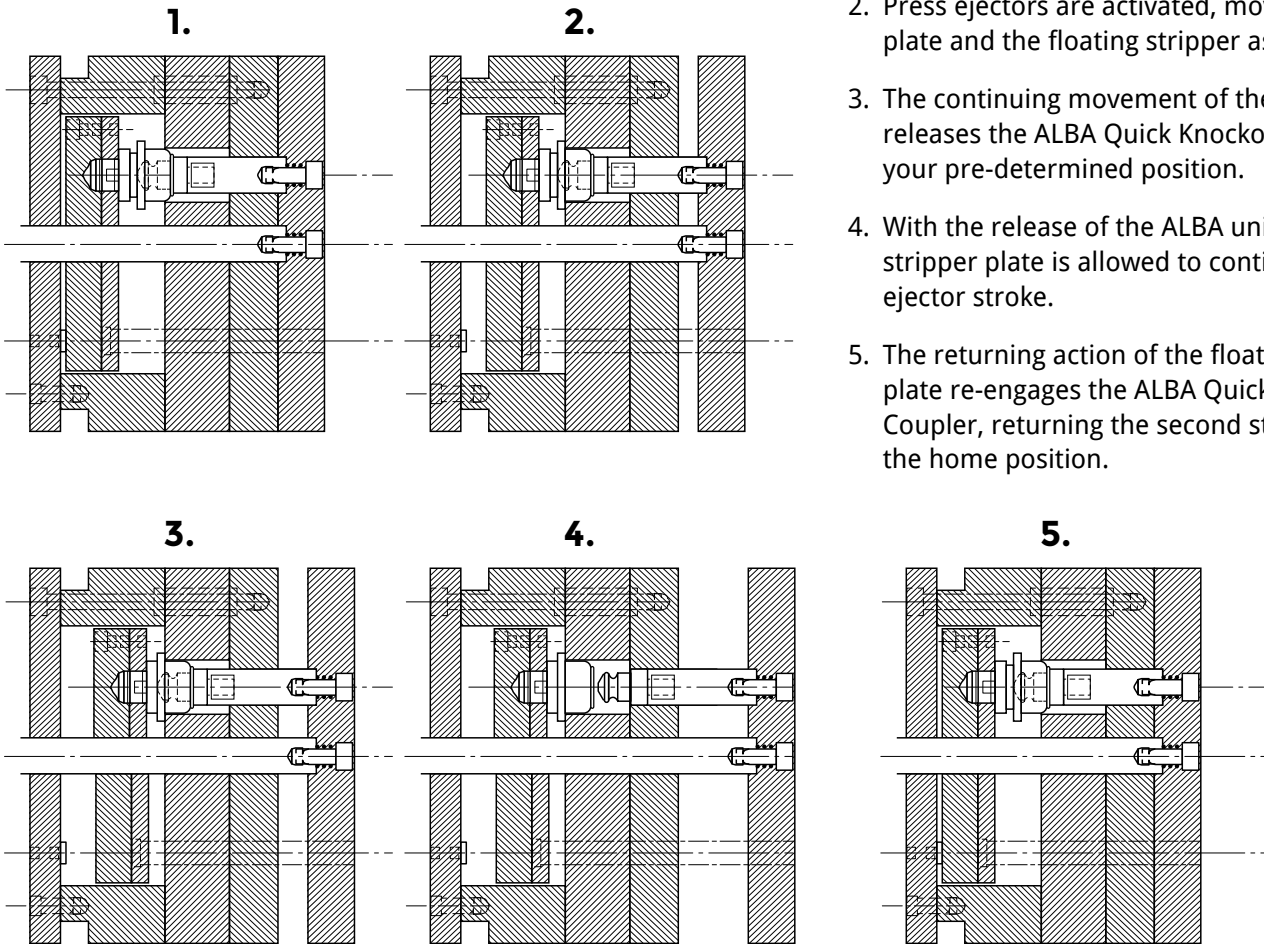
Part Dimensions

Number	Style	A	B	C	D	E	F	G	H	I	J	K*	L	M	N	O
701	Barb	1 1/4-7	-	2.087	1.181	3.425	-	-	-	-	-	-	-	-	-	1.770
702	Coupler	-	1 1/2-12	-	-	-	3.070	2.992	2.952	3.346	3.425	1.200*	1.181	4.293	3.112	-

Note: Pull Force 88,000 lbs.

2 Stage Ejection Using the ALBA Quick Knockout Coupler

Sequence of Operation:



1. Home Position. (Before part ejection)
2. Press ejectors are activated, moving the pin plate and the floating stripper as one.
3. The continuing movement of the press ejectors releases the ALBA Quick Knockout Couplers at your pre-determined position.
4. With the release of the ALBA unit, the floating stripper plate is allowed to continue with the ejector stroke.
5. The returning action of the floating stripper plate re-engages the ALBA Quick Knockout Coupler, returning the second stage plate to the home position.