



BZ Hydraulic Locking Cylinder

NEW

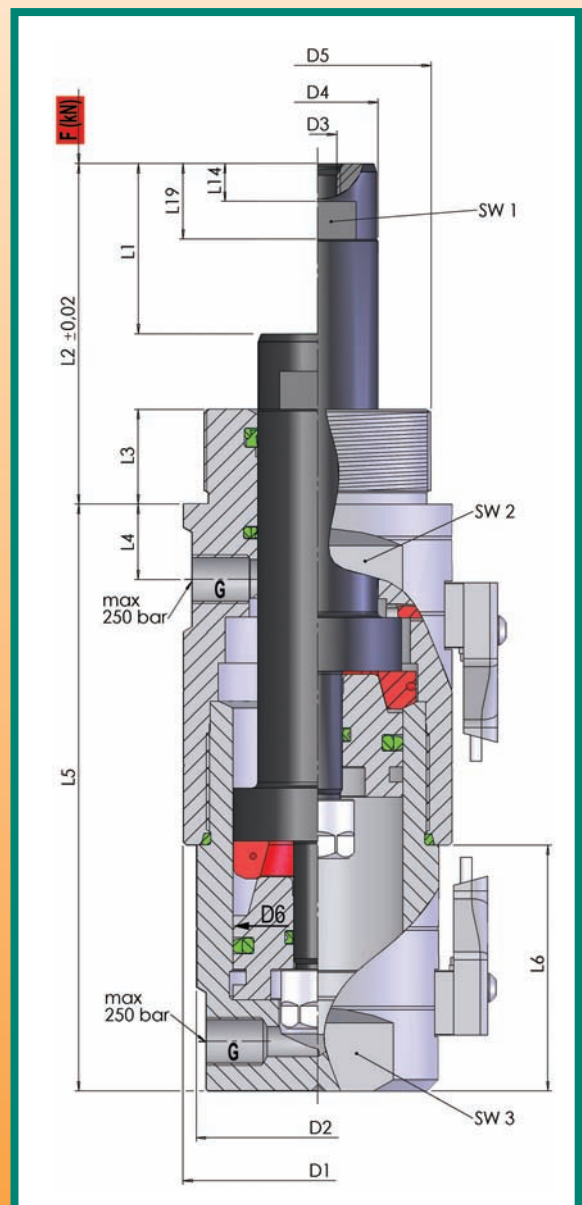
Hydraulic locking cylinder for use in plastic injection molds and casting dies.

Ideal for molds with core pulls, slides and/or side actions.



HM HMM SOLUTIONS INC

- Simplifies design while improving design flexibility – saving design time and effort.
- Simplifies and reduces mold machining – saving machining time and effort.
- Eliminates angle pins, heel blocks, slide retainers, and associated components – saving mold assembly & mold maintenance time, effort & costs.
- Smaller mold bases and stack heights are frequently possible – reducing material costs.
- Smaller mold bases, shorter stack heights, and shorter mold open strokes, may allow usage of smaller presses – reducing molding costs.
- Slides and cores may be moved independently of mold open/close movements – which may reduce cycle times.
- Slides and cores may be pulled during cooling cycle, which may minimize plastic shrinkage and distortion – improving molded part quality.
- Preloading is possible for use with through holes.
- May be actuated, in both directions, completely independent of mold open/close movements.
- Robust cam-finger design & engineering withstands heavy loads in a compact package.
- Robust design and engineering, and precision manufacturing, ensure long life & precision operation, with minimal maintenance.
- Withstands temperatures up to 120° C, and with optional high-temp switches, withstands temperatures up to 180° C.
- Optional retaining ring available for applications where cylinder will be vertically mounted with rod pointing down.
- Custom stroke lengths available as specials.



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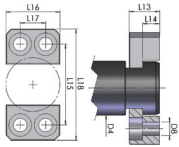
WINDSOR: PHONE 519-737-6743 FAX 519-737-6744



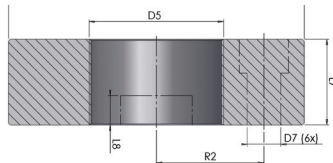
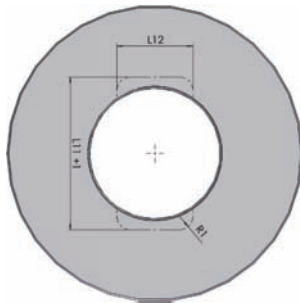
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CAT. NO.	D1	D2	D3	D4	D5	D6	D7	D8	D9	L7	L8	L9	L10	L11	L12	L13	L14	L15	L16	L17	L18	L19	R1	R2	G
BZ-16	38	36	M8	16	M30x1,5	24	8.5	-	82	22	-	34	12	-	-	5	-	-	-	-	-	11	-	28	1/8"
BZ-20	48	46	M8	20	M40x1,5	30	11	5.1	102	28	11	39	20	48	23	11	6	32	21	10	46	13	4	35	1/4"
BZ-25	57	53	M10	25	M48x1,5	36	13	6.1	112	32	13	43	20	54	28	14	8	38	26	12	52	15.5	5	40	1/4"
BZ-32	71	64	M12	32	M60x1,5	45	15	8.1	132	38	13	48	20	68	34	18	10	48	32	15	66	20	6	48	1/4"
BZ-42	87	79	M16	42	M75x1,5	56	17	8.1	160	46	15	57	20	80	38	22	12	58	36	18	78	24	7	58	3/8"
BZ-50	110	98	M16	50	M95x2	71	21	10	200	54	13	67	20	95	46	27	14	67	42	20	91	29	7	74	3/8"
BZ-60	129	114	M20	60	M110x2	84	25	10	238	64	-	75	20	-	-	27	14	76	42	20	100	32	-	86	1/2"

ADAPTER BLOCKS

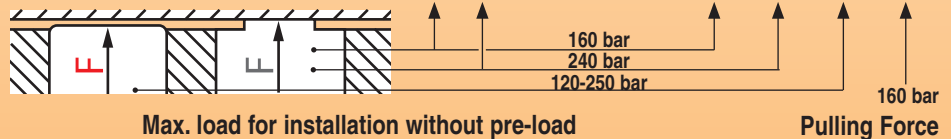


MOUNTING RINGS



OPTIONAL ITEMS

CAT. NO.	L1	L2	L3	L4	L5	L6	V	V	SW1	SW2	SW3	F(KN)	F(KN)	F(KN)	F(KN)
BZ-16-20	20	45	15	12	90	30	0.12	0.18	12	30	30	35	40	60	4
BZ-16-40	40	65			110	50	0.20	0.27							
BZ-20-30	30	60	18	14	115	47	0.12	0.18	14	38	41	50	70	100	6
BZ-20-60	60	90			145	77	0.20	0.27							
BZ-25-35	35	70	20	15	125	51	0.08	0.12	18	46	41	65	90	130	8
BZ-25-70	70	105			160	86	0.10	0.15							
BZ-32-45	45	90	25	20	155	65	0.12	0.17	24	55	50	110	150	200	12
BZ-32-90	90	135			200	110	0.15	0.20							
BZ-42-50	50	105	32	24	185	71	0.10	0.15	32	75	65	160	220	280	17
BZ-42-100	100	155			235	121	0.15	0.20							
BZ-50-60	60	130	42	26	216	78	0.20	0.25	41	90	80	300	400	500	32
BZ-50-120	120	190			276	138	0.25	0.35							
BZ-60-75	75	155	50	36	260	100	0.20	0.25	50	110	95	400	600	700	43
BZ-60-150	150	230			335	175	0.25	0.35							



Cylinder must achieve full forward & full back positions for proper operation.
To maintain segments in locked position, a minimum of 60 bar hydraulic pressure must be maintained when in full forward.
Force calculations must include pre-loads and retraction forces.

APPLICATION EXAMPLES

