



# ISO 6431 VDMA with Rod Lock

Rod Lock Series ABRL allows the mechanical locking of the piston rod in any position along the stroke. (Locking at either rod end point is recommended)

When the rod lock is exhausted (no presence of compressed air) the clamping mechanism is activated, locking/clamping the rod in position. Pressurizing the Rod Lock deactivates it, allowing the rod to move freely.

### How to Order

The model number consists of four alphanumeric clusters that designate type, bore size, stroke length, and options. Refer to the existing Bimba catalog or website for mounting kit information.

Example shown: ISO 6431 32mm Rod Lock Cylinder with a 100mm stroke length and cushions on both heads.



**ABRL - 32 - 100 - CB**

Type	Bore Size	Stroke	Options
ABRL <sup>2</sup> (cast end cap design)	32mm	Enter stroke in mm	CB - Cushions Both Heads CF - Cushions Front Heads Only CR - Cushion Rear Head Only D - Double Ended EE - Extra Rod Extension HR - High Temperature Seals <sup>1</sup> (-20°C to +200°C)
	40mm		
	50mm		
	63mm		
	80mm		
	100mm		

<sup>\*\*</sup>Not to be used as a safety device

<sup>1</sup>Not available with ABRL models

<sup>2</sup>ABRL rod material: chrome plated stainless

### ABRL Locking Force

Bore Size (mm)	Locking Force @ 7 bar (100psig)
32	125 lbs
40	194 lbs
50	304 lbs
63	483 lbs
80	779 lbs
100	1217 lbs

### General Specifications

Operating Pressure Range	3 bar to 8 bar
Operating Temperature Range	0°C to +80°C
Stroke Lengths	1mm to 2800mm

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Leaders in Actuation.

To learn more about this product, scan this QR code with your mobile device.

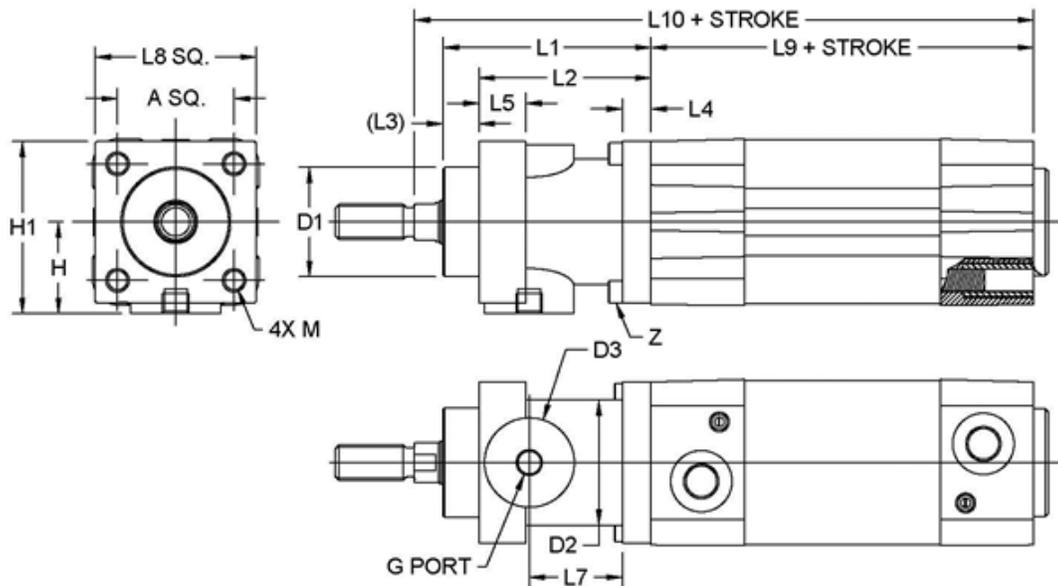




### ISO 6431 VDMA Price List

Basic Model	32mm	40mm	50mm	63mm	80mm	100mm
*ABRL-00- -	\$375.10	\$439.30	\$547.00	\$693.70	\$959.90	\$1096.00
Add per mm stroke	.18	.18	.23	.23	.39	.39
*Pricing is for Single Rod End models only - Double rod end rod lock models are available - consult your Bimba distributor						
Options						
Add per mm stroke	0.17	0.19	0.26	0.30	0.45	0.51
EE - ABRL model per mm	.15	.15	.20	.20	.25	.25

### Dimensional Information



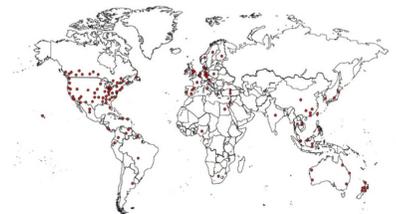
Bore	D1	D2	D3	A	G	H	H1	L1	L2	L3	L4	L5	L7	L8	L9	L10	M	Z
32	30.5	35	25	32.5	M5	25.5	46.5	58	48	10	8	13	34	45	94	160	M6	M6X20
40	35	40	28	38	G1/8	30	53	65	55	10	8	13	38	50	105	178	M6	M6X20
50	40	50	35	46.5	G1/8	36	64	82	70	12	15	16	48	60	106	200	M8	M8X30
63	45	60	38	56.5	G1/8	40	75	82	70	12	15	16	49.5	70	121	215	M8	M8X30
80	45	80	48	72	G1/8	50	95	110	90	20	18	20	61	90	128	254	M10	M10X35
100	55	100	58	59	G1/8	58	110.5	115	100	15	18	20	69	105	138	269	M10	M10X35

### Key Market Opportunities

- Food Production SIC 20
- Textile, Paper, Pharmaceutical SIC 22 - 28
- Plastics, Steel Manufacturing SIC 30 - 34
- Machinery Manufacture SIC 35 - 39

### Leaders in Actuation.

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