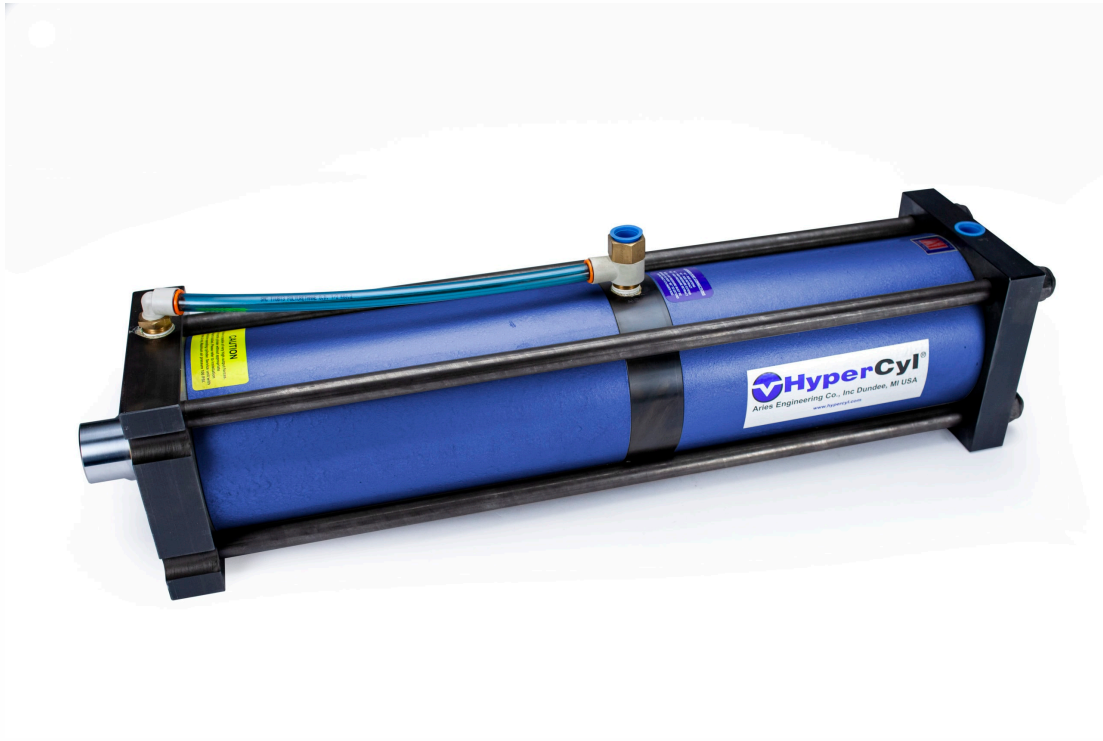




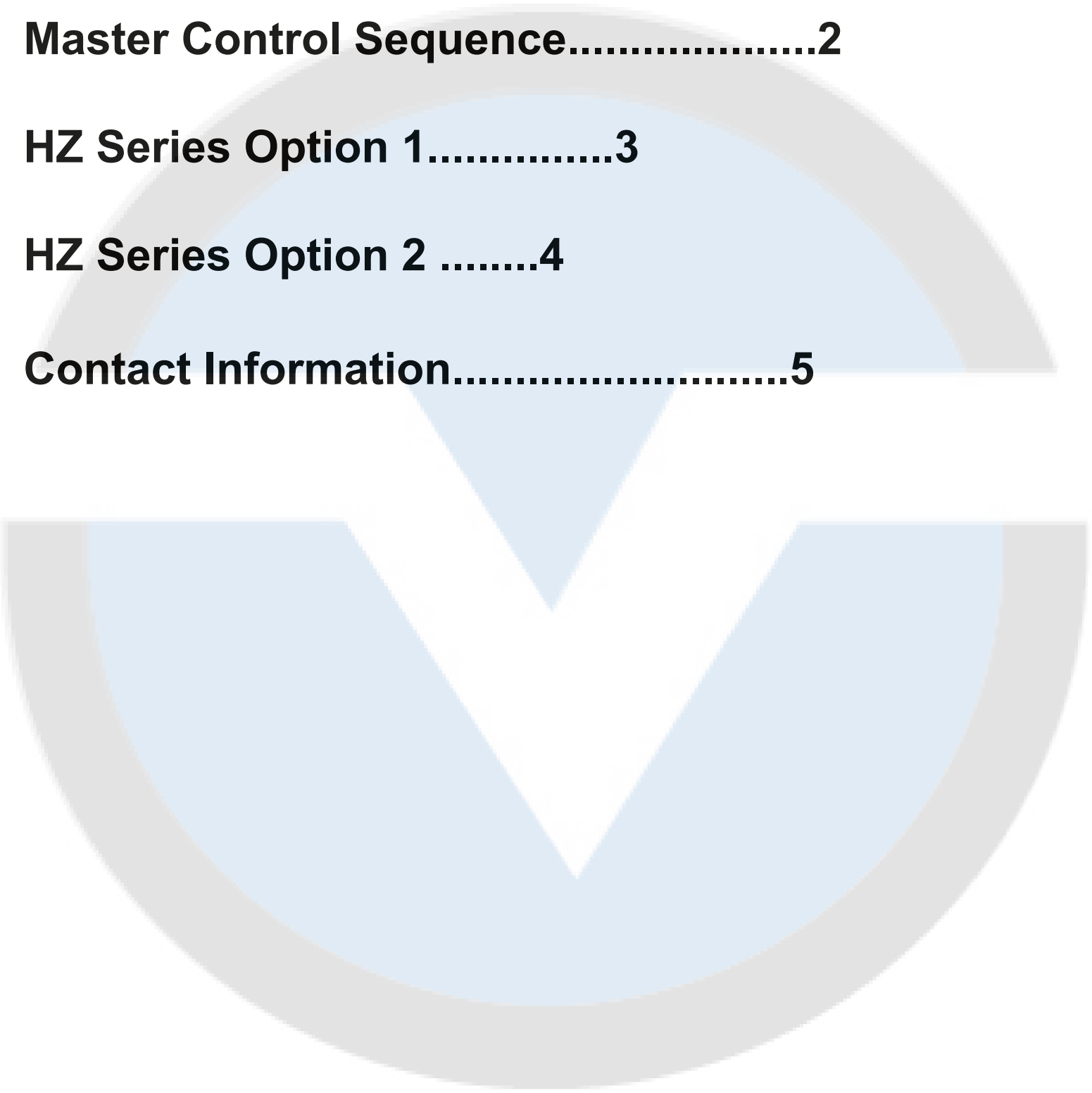
HyperCyl®

By Aries Engineering Company, Inc.



HZ Series Pneumatic Schematics

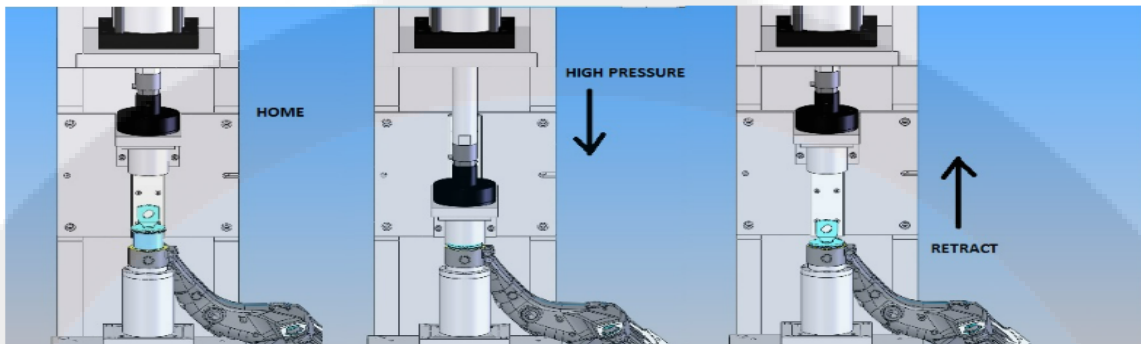
Table of Contents



Master Control Sequence.....	2
HZ Series Option 1.....	3
HZ Series Option 2	4
Contact Information.....	5

Master Control Sequence

The HZ Series HyperCyl® cylinder requires only one (1) pneumatic 2-way directional control valve.



Control sequence to be followed in order 1 through 3

Step number	Description of operation	A2 port condition	B2 port condition
1.	Home (Retracted)	Exhausted	Pressurized
2. (Cycle Start)	High Pressure Extend	Pressurized	Exhausted
3. (Cycle End)	High Pressure Retract	Exhausted	Pressurized
	(Cylinder now at Step 1)		

Notes for 3 position exhaust-centered valves, for e-stops or light curtain breaches:

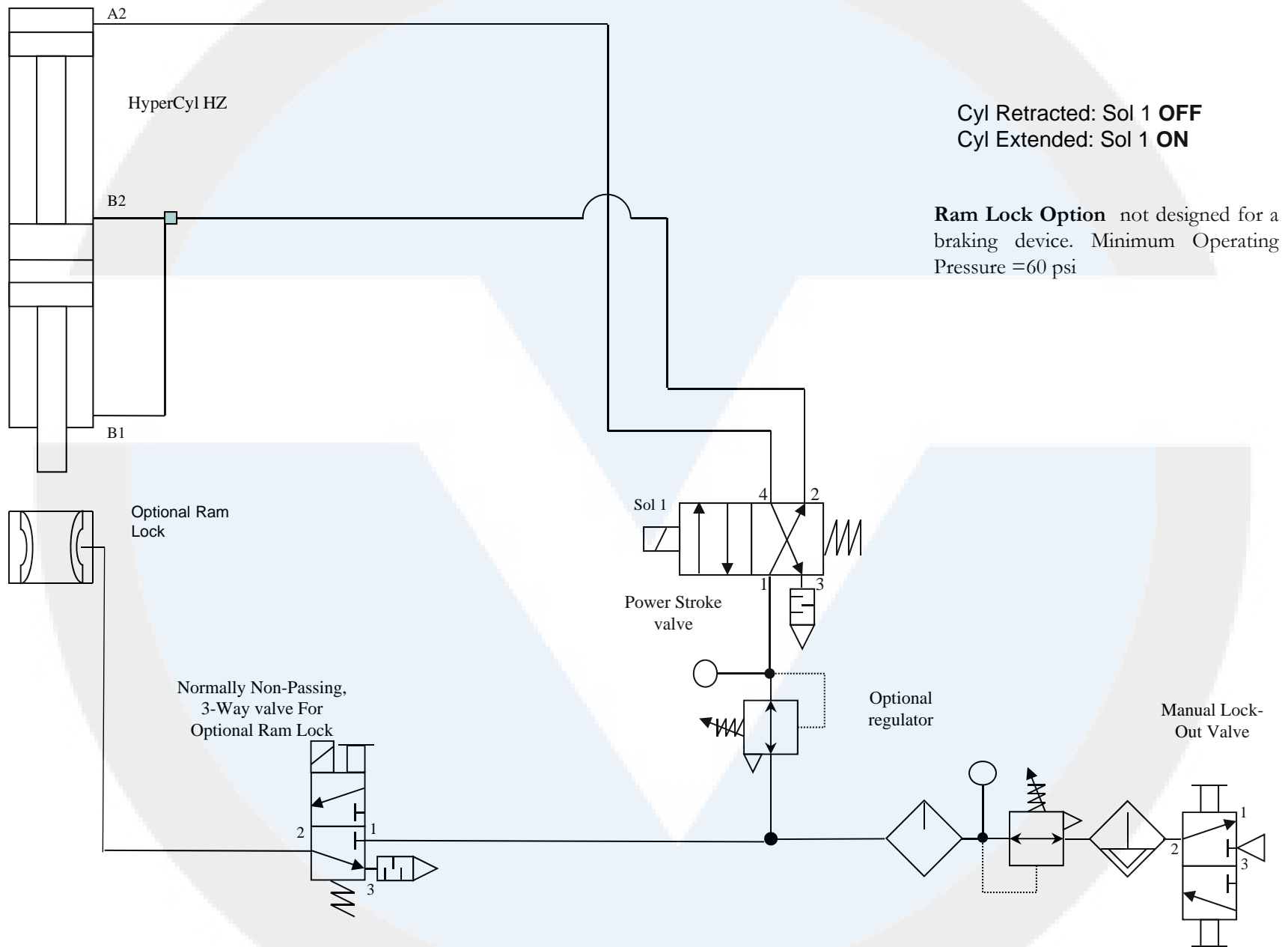
In cycle (steps 1 through 3).

The mid position of the valves is used only for an E-Stop condition (cycle interrupted), or shutdown. Normally, the valve is shifted to one side or the other, and not in the mid position.

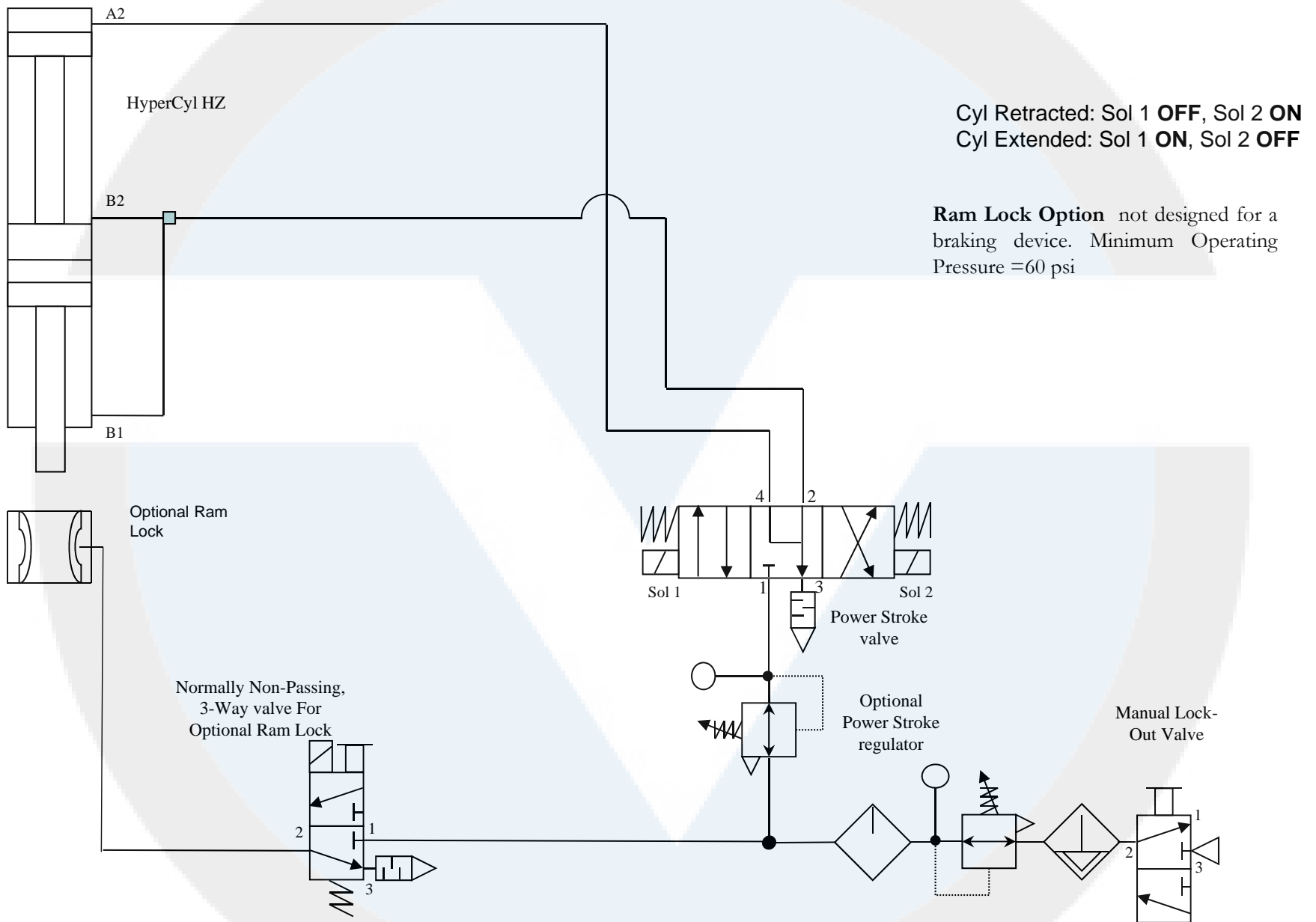
Not in cycle (step 1)

When not in cycle, and the e-stop is cleared, B2 must return to their pressurized condition prior to the start of the cycle. For example, the operator breaches the light curtain to load, unload, or change a part. The machine is not in cycle. The valves shift to their mid position. When the operator is clear of the light curtain, the valves must be shifted to the position in which B2 is pressurized before the start of the next cycle.

HZ Series Option 1



HZ Series Option 2



Contact Information

**Aries Engineering Co., Inc.
130 Aries Drive
Dundee, MI 48131**

Phone: (734) 529-8855

Fax: (734) 529-8844

E-Mail: service@hypercyl.com

www.HyperCyl.com



HyperCyl®

By Aries Engineering Company, Inc.