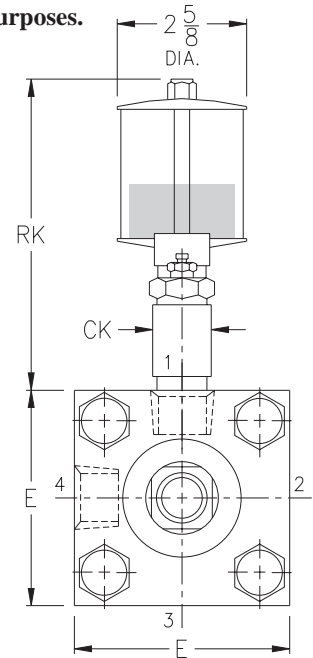
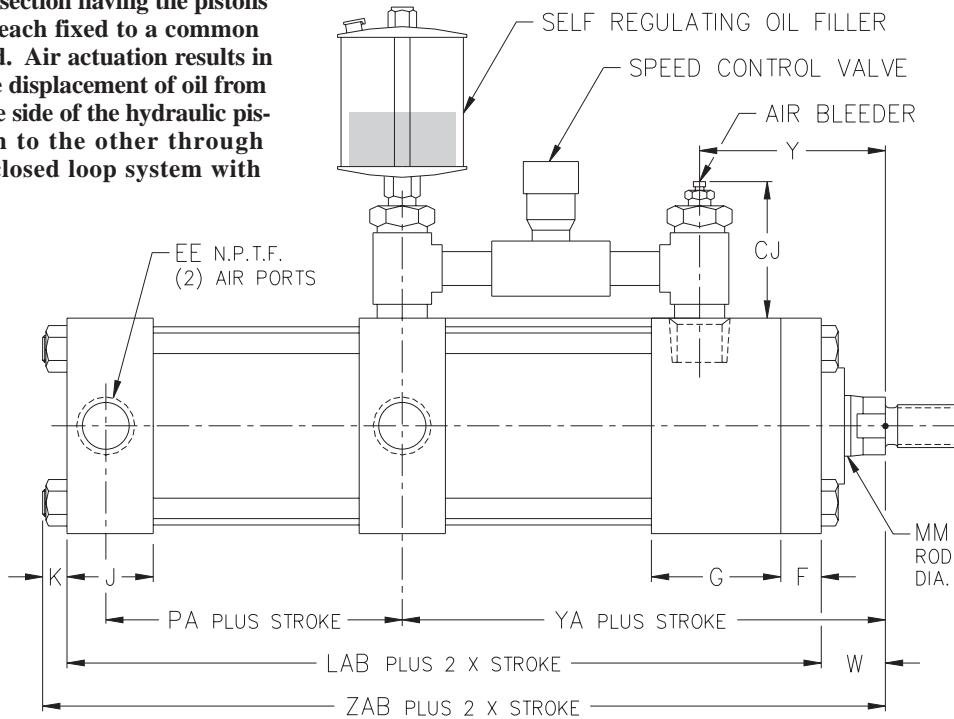


Series "AD" Airdraulic cylinders cycle with the smooth, uniform motion characteristic of hydraulic actuation while using air pressure to supply the power for operation.

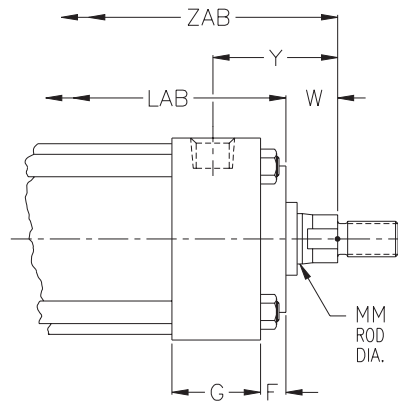
This unique cylinder adaptation consists of a double acting air cylinder coupled in tandem with a self contained hydraulic section having the pistons of each fixed to a common rod. Air actuation results in the displacement of oil from one side of the hydraulic piston to the other through a closed loop system with

the maximum travel speed of the unit being a function of the fluid rate of flow.

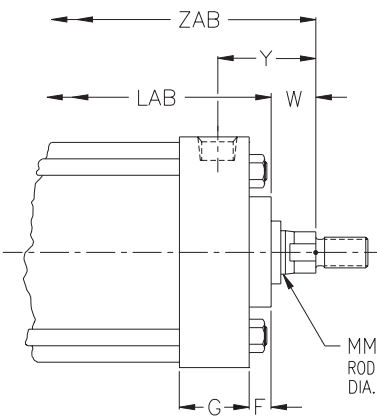
Available valving options allow precise regulation of the travel speed in either one or both directions as desired to suit application purposes.



**BEARING RETAINER CONSTRUCTION
1 1/2 THRU 2 1/2 BORE**



**BEARING RETAINER CONSTRUCTION
3/4 THRU 6 BORE**



**BEARING RETAINER CONSTRUCTION
8 THRU 14 BORE**

ENVELOPE DIMENSIONS

CYL. BORE	E	EE	F	G	J	K
1 1/2	2	1/4	3/8	1 1/2	1	1/4
2	2 1/2	1/4	3/8	1 1/2	1	5/16
2 1/2	3	1/4	3/8	1 1/2	1	5/16
3 1/4	3 3/4	1/2	5/8	1 3/4	1 1/4	3/8
4	4 1/2	1/2	5/8	1 3/4	1 1/4	3/8
5	5 1/2	1/2	5/8	1 3/4	1 1/4	7/16
6	6 1/2	3/4	3/4	2	1 1/2	7/16
8	8 1/2	3/4	3/4	2	1 1/2	9/16
10	10 5/8	1	3/4	2 1/4	2	11/16
12	12 3/4	1	3/4	2 1/4	2	11/16
14	14 3/4	1 1/4	3/4	2 3/4	2 1/4	3/4

CYL. BORE	CJ	CK	RK	PA	LAB
1 1/2	2 1/2	7/8	5 7/8	2 5/16	6 3/8
2	2 1/2	7/8	5 7/8	2 5/16	6 3/8
2 1/2	2 1/2	7/8	5 7/8	2 7/16	6 5/8
3 1/4	3 3/16	1 1/4	6 9/16	2 13/16	7 7/8
4	3 3/16	1 1/4	6 9/16	2 13/16	7 7/8
5	3 3/16	1 1/4	6 9/16	3 1/16	8 3/8
6	3 11/16	1 1/2	7 1/16	3 3/16	9
8	3 11/16	1 1/2	7 1/16	3 5/16	9 1/4
10	4 7/16	1 7/8	7 13/16	4 1/8	11 1/4
12	4 7/16	1 7/8	7 13/16	4 5/8	12 1/4
14	5	2 1/4	8 3/8	5 7/16	14 1/4