## AR Series Adjustable Shock Absorber

THE SHOCK ABSORBER BUILT TO WITHSTAND THE ABUSE OF FOUNDRY AND STEEL MILL SERVICE.



THESE FEATURES PROLONG THE LIFE AND ENSURE PEAK PERFORMANCE FOR EQUIPMENT WHICH REQUIRES HEAVY DUTY SERVICE:

- UNIFORM RATE OF DECELERATION,
   THROUGHOUT THE LENGTH OF WORKING
   STROKE AND ADJUSTMENT RANGE
- CAPACITIES TO ONE MILLION INCH POUNDS
- BORE SIZES 11/8, 2 AND 4 INCH
- SPRING OR AIR RETURN
- STROKE LENGTH TO 10 INCHES

## HOW TO ORDER THE AR SERIES SHOCK ABSORBERS ARS • B • 1 1/8 • 2 • PS • 99

Efdyn's S-Standard Model Adjustable F-Foundry Model Shock Absorber Prefix T-Foundry Model with 2" rod extension

Standard Adjustment location

Bare
Back • F-Front Size

Mounting Style • P-Primary • B- Back Flange
F- Front Flange • L-Lug • HR- Hinge-Rod eye

Piston Rod Return Method S-Spring Return A- Air (External Accumulator Required)

Designates Standard Unit Without Modifications

***MAXIMUM WORKING CAPACITY Inch-Lbs.				*HEAT DISSIPATION CAPACITY Inch-Lbs. Per Hour						
Bore Size				Bore Size (Spring Return Models)			Bore Size (Air Return Models)			
Stroke**	1 1/8	2	4	1 1/8	2	4	1 1/8	2	4	
2	15,000	47,000	-	4,050,000	5,340,000	_	12,200,000	16,640,000	_	
4	30,000	94,000	376,000	4,510,000	6,120,000	12,600,000	12,650,000	17,420,000	29,700,000	
6	45,000	141,000	564,000	5,590,000	7,070,000	13,900,000	13,750,000	17,875,000	30,945,000	
8	-	188,000	752,000	-	8,400,000	15,900,000	_	18,350,000	32,100,000	
10	-	235,000	940,000	-	9,600,000	17,600,000	-	18,900,000	33,000,000	

Dimensions Common To Spring Or Air Return Symbol Bore Size (Inches)								
A	1 1/8	2	4					
В	1 1/8	2	4					
C	3/4	1 1/4	2 1/2					
D	7/8	1 3/16	1 3/4					
E	1 1/2	2 3/8	4 3/4					
F	3/4	1	1 1/2					
G	2 1/2	3 9/16	6 7/8					
Н	4	5	8 1/2					
J	2 1/2	3 9/16	6					
K	1 3/16	1 3/4	3 3/16					
L	4 1/2	5 1/2	10					
M	3 1/2	4 1/2	8					
N	3 1/2	4	8					
Р	15/32	17/32	1 1/16					
Q	7/16 - 14	1/2-20	7/8-9					
R	9/16	11/16	1 1/4					
S	3/4 - 16	1 5/16 - 12	1 5/8 - 12					
T	1 1/16	1 13/16	2 15/16					
U	1 1/4	1 3/4	3 1/8					
V	4 1/2	5	10					
W	7/16	9/16	7/8					
Χ	1 7/16	2 7/16	4 1/4					
Υ	3/4	1 1/4	2					
Z	1 1/4	2	3 1/8					
BB	4 1/2	5 1/2	8 3/4					
CB	3/4	1 1/4	2					
CC	3 5/8	4 1/4	7					
CD	1/2	1	1 3/4					
CF	1	2	3 1/2					
CL	1 7/8	3 3/8	4 3/4					
CR	1/2	1	1 3/4					
CW	3/4	1 1/2	2 1/2					
DD	2 1/8	2 3/4	4 1/2****					
EE	1 3/4	1 3/4	2 3/4					
FF	1	1 1/2	2 1/2					
LB	2	2 3/8	4 1/2					
LF	2	2 9/16	4 1/2					
JJ	15/32	21/32	1 1/16					
KK	3/4	1	1 1/2					
CS	3/8	9/16	3/4					

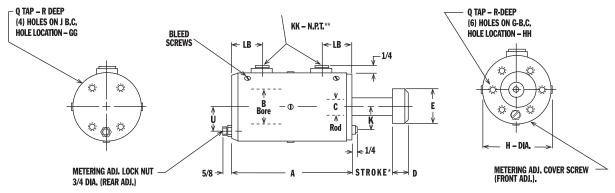
- \* Heat capacity ratings are based on still air conditions (80°F ambient) and max. hydraulic fluid operating temperature of 200°F. Spring return model ratings apply to self-contained units. Air return model ratings apply to units with circulating hydraulic systems (external reservoir double connecting ports). Heat capacity ratings can be increased using special fluid and seals and/or heat exchanger systems. Consult factory.
- \*\* When load propelling force exceeds 25% of total stopping force, based on maximum unit capacity rating, external mechanical load stops are recommended. Mechanical load stops must be positioned to allow piston rod to compress to within 1/16" of completing full stroke. If mechanical load stops cannot be positioned this accurately, specify piston rod extension for additional clearance as full stroke must be utilized for proper unit performance.
- \*\*\* Consult factory for optimum adjustability if unit selected will be used above 80% of its max. working capacity rating when impact velocities are 1.0 FPS or less, and under 60% of its max. working capacity rating when impact velocities are 15.0 FPS or greater.

\*\*\*\* 4 1/2" is for rotatable jacket tube; welded jacket tube is 4 3/8".

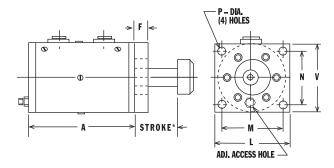
	Dimension A									
Spring Return  Bore Size (Inches)					Air Return Bore Size (Inches)					
Stroke	1 1/8	2	4		Stroke	1 1/8	2	4		
2	11 1/8	11 1/8			2	11 1/8	11 1/8	-		
4	13 1/8	13 7/8	16 1/4		4	13 1/8	13 7/8	16 1/4		
6	17 7/8	17 1/8	18 3/4		6	13 7/8	15 1/8	18		
8	-	21 3/4	22 7/8		8	_	17 1/8	20		
10	_	26 1/4	26 1/4		10	_	19 1/8	22		

-ASK ABOUT OUR EXPEDITE SERVICE!-

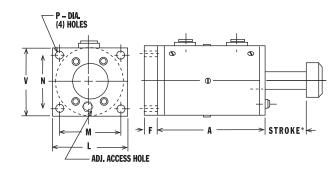




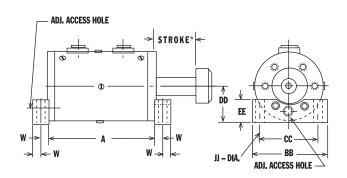
PRIMARY MOUNT - STYLE "P"



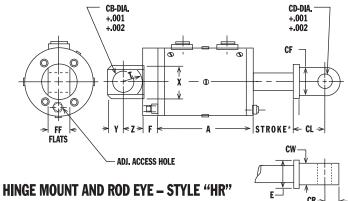
FRONT FLANGE MOUNT - STYLE "F"



**BACK FLANGE MOUNT - STYLE "B"** 



**LUG MOUNT - STYLE "L"** 



## **HOLE LOCATION**

	BORE SIZE				BORE SIZE			
TYPE	1 1/8	2	4	TYPE	1 1/8	2	4	
GG	45°	55°	60°	нн	45°	55°	60°	

<sup>\*</sup> Add 1/2" for rod extension on Model ARF and 2" rod extension on model ART foundry type units.

<sup>\*\*</sup> Double ports (NPT) standard on all bore sizes. S=SAE ports can be provided as option.