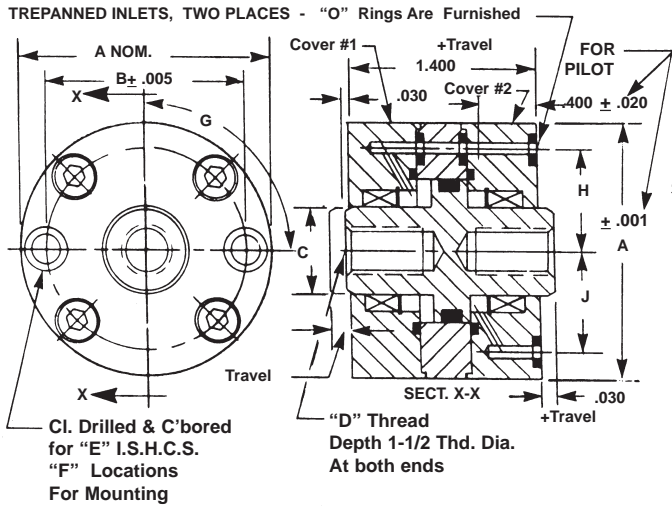


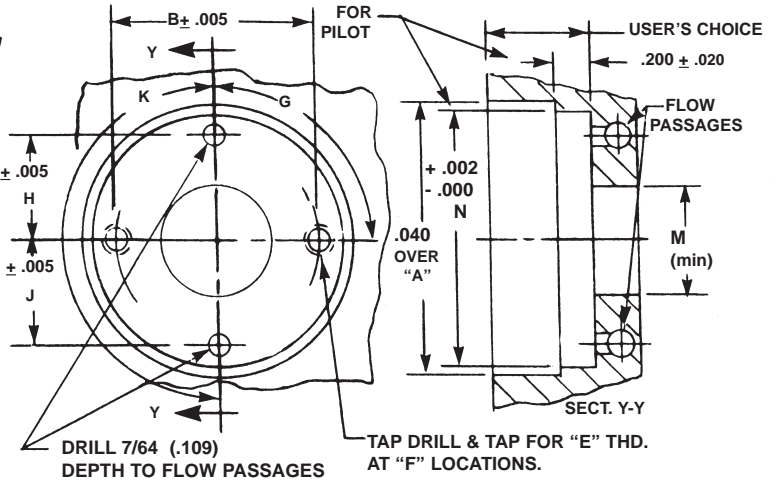
# SHORT STROKE HYDRAULIC CYLINDERS - HI-ENERGY® SERIES 125-LS-ET-PM

Double Acting-Double Ended Threaded Pistons Ends-End Trepan Ported-Pocket Mounted™

## PRODUCT DETAILS:



## SUGGESTED MOUNTING DETAILS:



BASIC PART NO.	O.D. A	BOLT CIRCLE B	ROD DIA. C	ROD THD. D	MTNG. SCREWS E	NO. F	DEG. G	OFF SET H	OFF SET J	DEG. K	WR. FLATS L	CL. HOLE M	PILOT N	PISTON DIA. (IN.)	PISTON AREA (SQ.IN.)
S6144(-)-LS	1.500	1.142	0.438	5/16-24	8-32	2	90	0.582	0.582	180	0.375	0.469	1.502	0.738	0.277
S6145(-)-LS	1.625	1.260	0.500	5/16-24	8-32	2	90	0.644	0.644	180	0.375	0.531	1.628	0.863	0.389
S6146(-)-LS	1.750	1.358	0.563	5/16-24	10-32	2	90	0.690	0.690	180	0.438	0.594	1.753	0.925	0.423
S6147(-)-LS	1.875	1.457	0.625	3/8-24	10-32	2	90	0.738	0.738	180	0.500	0.656	1.878	0.993	0.467
S6148(-)-LS	2.000	1.575	0.688	3/8-24	10-32	2	90	0.800	0.800	180	0.500	0.719	2.003	1.118	0.610
S6149(-)-LS	2.125	1.713	0.750	1/2-20	10-32	2	90	0.863	0.863	180	0.625	0.781	2.128	1.243	0.772
S6150(-)-LS	2.250	1.831	0.813	1/2-20	10-32	3	60	0.925	0.925	120	0.625	0.844	2.253	1.368	0.951
S6151(-)-LS	2.375	1.949	0.875	1/2-20	10-32	3	60	0.988	0.988	120	0.688	0.906	2.378	1.493	1.150
S6152(-)-LS	2.500	2.067	1.000	5/8-18	10-32	3	60	1.050	1.050	120	0.750	1.031	2.503	1.600	1.226

Nom. Force (lbs) = Pressure (psi) times Area (sq.in.)

## SPECIFICATIONS:

SERVICE, HYDRAULIC OIL  
M.O.P. 1500 PSI  
TEMPERATURE, -40 to +200 deg. F.  
MATERIALS:  
BODY & COVERS, BEARING BRONZE  
PISTON, STAINLESS STEEL  
FASTENERS, ALLOY STEEL I.S.H.C.S.  
PISTON & COVER SEALS, "O" RINGS  
ROD SEALS, LIP STYLE

## ORDERING INFORMATION:

### HOW TO ORDER BASIC CYLINDERS:

A BASIC PART NUMBER consists of the letter "S" and four digits followed by a dash number to indicate piston travel in increments of 1/10 (0.100) inch and ending with the suffix "-LS" Travel to -40 (4.000) is standard.

EXAMPLE = S6144 - 8 - LS  
S6144 - BASIC PART NUMBER  
8 - Rod lip seal designation  
LS - Indicates piston travel of 8/10 (0.800) inch  
Letter & four digits from the table.

### HOW TO ORDER CYLINDERS WITH OPTIONS:

Add options to the BASIC PART NUMBER as suffixes in any order.  
EXAMPLE = S6144 - 8 - LS - ETW  
ETW - External rod thd. option  
S6144 - BASIC PART NUMBER

### HOW TO ORDER ALL STAINLESS STEEL CYLINDERS:

Add another letter "S" as a prefix to a BASIC PART NO.  
Add 20% to the BASE PRICE  
EXAMPLE = S - S6144 - 8 - LS  
S - BASIC PART NUMBER.  
S6144 - All stainless steel prefix

### HOW TO ORDER METRIC CYLINDERS:

A BASIC PART NUMBER FOR METRIC CYLINDERS consists of the letter "S" and a four digit number from the table with a prefix "M" and a suffix to indicate travel in millimeters plus the suffix -LS. Please see inside rear cover for thread and travel conversion.  
There is no added cost.  
EXAMPLE = M - S6144 - 20 - LS  
M - Metric prefix  
S6144 - From the table  
20 - Travel in millimeters  
LS - Rod lip seal designation

### HOW TO ORDER CYLINDERS WITH SEALS FOR TEMPERATURES TO 275 deg. F.

Add the letter "H" as a prefix to a BASIC PART NO.  
Add 10% to the BASE PRICE.  
EXAMPLE = H S6144 - 8 - LS  
H - High Temperature Seals  
S6144 - BASIC PART NUMBER

### HOW TO ORDER SERVICE KITS:

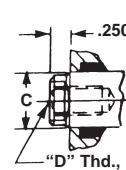
Specify the complete part number followed by the suffix "SK".  
EXAMPLE = S6144 - 8 - LS - SK  
SK - Indicates SERVICE KIT  
S6144 - BASIC PART NUMBER

## OPTIONAL MOUNTING STYLE:

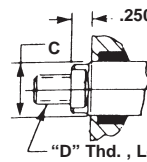
"E" internally threaded holes at "F" locations in the rear mounting face.  
Add suffix -R to the BASIC PART NO.  
There is no added cost.  
Intended as an option where attachment from the rear is preferred.



## OPTIONAL ROD ENDS:



Int. Thd. With "L" Wrench Flats Extending From Cover #1.  
Opposite End Has "D" internal Thread On Cover #2 Side.  
Add Suffix -ITW To The BASIC PART NUMBER.  
Add 5% To The BASE PRICE.



Ext. Thd. With "L" Wrench Flats Extending From Cover #1.  
Opposite End Has "D" internal Thread On Cover #2 Side.  
Add Suffix -ETW To The BASIC PART NUMBER.  
Add 8% To The BASE PRICE.

## NOTES:

Dimensions are nominal in U.S. Customary specifications.  
Metric cylinders are dimensionally equivalent except for conversion in mounting details where threads, fasteners, clearance holes & counter-bores are to metric standards. See inside rear cover for a table of metric fastener conversion. There is no added cost for this metric modification.  
Wrench flats may not be necessary if cylinders can be pressurized in the retracted or extended position when tightening the rod connect.