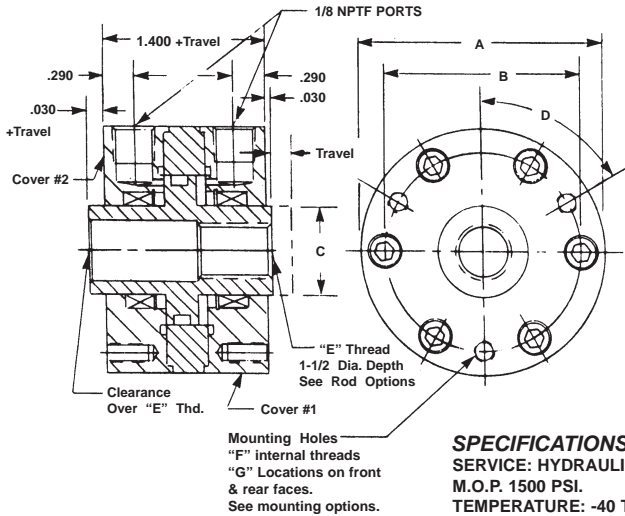


SHORT STROKE HYDRAULIC CYLINDERS, HI-ENERGY® SERIES 125-LS-SP-FM

Double Acting-Double Ended Pistons With Thru Thd.-Side Ported-Either Face Mounted



BASIC PART NO.	O.D. A	BOLT CIRCLE B	ROD DIA. C	DEG D	THD. E	THD. F	NO. G	WR. FLATS H	PISTON DIA. (IN)	NET PISTON AREA (SQ. IN)
S3524(-) -LS	1.500	1.142	0.438	90	5/16-24	#8-32	2	0.375	0.738	0.277
S3525(-) -LS	1.625	1.260	0.500	90	5/16-24	#8-32	2	0.375	0.863	0.389
S3526(-) -LS	1.750	1.358	0.563	90	5/16-24	#10-32	2	0.438	0.925	0.423
S3527(-) -LS	1.875	1.457	0.625	90	3/8-24	#10-32	2	0.500	0.993	0.467
S3528(-) -LS	2.000	1.575	0.688	90	3/8-24	#10-32	2	0.500	1.118	0.610
S3529(-) -LS	2.125	1.713	0.750	90	1/2-20	#10-32	2	0.625	1.243	0.772
S3530(-) -LS	2.250	1.831	0.813	60	1/2-20	#10-32	3	0.625	1.368	0.951
S3531(-) -LS	2.375	1.949	0.875	60	1/2-20	#10-32	3	0.688	1.493	1.150
S3532(-) -LS	2.500	2.067	1.000	60	5/8-18	#10-32	3	0.750	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
PISTON SEAL: "O" RING
ROD SEALS: LIP STYLE

NOTES:

Dimensions are nominal in U.S. Customary specifications. Covers may be oriented relative to each other to offset port locations in increments of 180 deg. on 1.500" thru 2.125" O.D. cylinders and in increments of 120 deg. on 2.250" thru 2.500" O.D. cylinders. 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 the metric modification. Wrench flats may not be necessary if cylinders can be pressurized in the retracted or extended position when tightening the rod connection.

OPTIONAL FITTINGS:

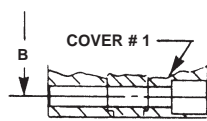


Fittings are supplied for 37 degree flared 1/8 O.D. metal tube or equivalent flexible hose. (Reference - S.A.E.- 2) Add suffix - 37 to the BASIC PART NUMBER. There is no added cost.

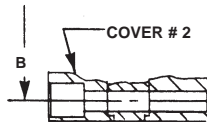
OPTIONAL MOUNTING STYLE:



Clearance holes for thru bolts of the size identified as "F" in the tabulated data. Add suffix - CL to the BASIC PART NO. There is no added cost.

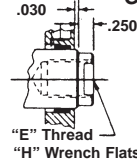


Clearance holes with counter-bores on cover side # 1 for internal socket head cap screws of the size shown as "F" in the tabulated data. Add suffix -CB1 to the BASIC PART NO. There is no added cost.

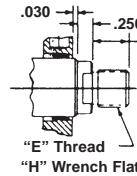


Clearance holes with counter-bores on cover side # 2 for internal socket head cap screws of the size shown as "F" in the tabulated data. Add suffix - CB2 to the BASIC PART NO. There is no added cost.

OPTIONAL ROD ENDS:



Int. thread with "H" wrench flats extending from Cover side # 1. Opposite end has hole diameter for clearance over thread "E". Add suffix - ITW to the BASIC PART NUMBER. Add 5% to the base price.



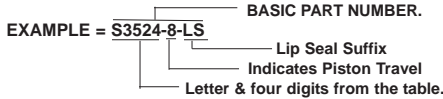
Ext. thread with "H" wrench flats extending from Cover side # 1. Piston is solid. Add suffix - ETW to the BASIC PART NUMBER. Add 8% to the base price.

Consult Factory where rod end options are required on both ends of a double ended piston.

ORDERING INFORMATION:

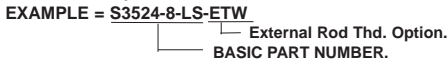
HOW TO ORDER BASIC CYLINDERS:

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 followed by the suffix - LS. Travel to - 40 (4.000) is standard.



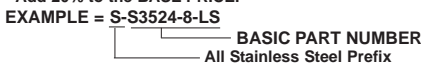
HOW TO ORDER CYLINDERS WITH OPTIONS:

Add options to the BASIC PART NUMBER as suffixes in any order.



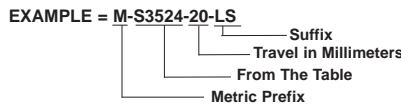
HOW TO ORDER ALL STAINLESS STEEL CYLINDERS:

Add another letter "S" as a prefix to a BASIC PART NO. Add 20% to the BASE PRICE.



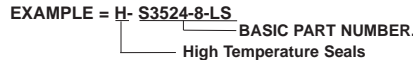
HOW TO ORDER METRIC CYLINDERS:

A BASIC PART NUMBER FOR METRIC CYLINDERS consists of the letter "M" and a four digit number from the table with a prefix "M" followed by a dash number to indicate travel in millimeters and the suffix - LS. Please see inside rear cover for metric thread and travel conversions. There is no added cost.



HOW TO ORDER CYLINDERS WITH SEALS FOR TEMPERATURES TO 275 DEGREES.

Add the letter "H" as a prefix to a BASIC PART NO. Add 10% to the BASE PRICE.



HOW TO ORDER SERVICE KITS:

Specify the complete part number followed by the suffix "SK".

