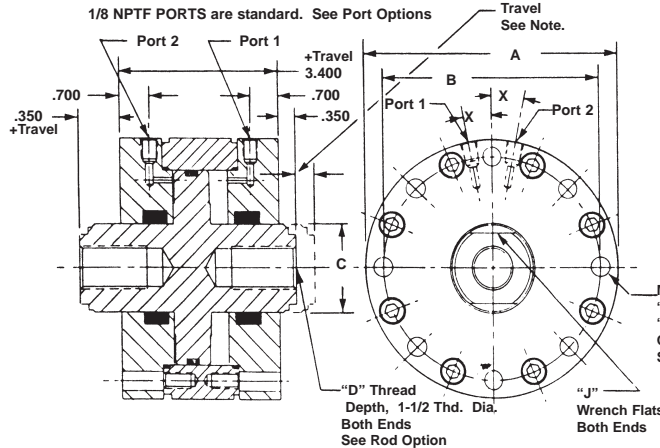


SHORT STROKE HYDRAULIC CYLINDERS, HI-ENERGY® SERIES 1500-LS-SP-FM

Double Acting-Double Ended Pistons With Threaded Ends-Side Ported-Either Face Mounted



SPECIFICATIONS:

SERVICE, HYDRAULIC OIL
M.O.P., 1500 PSI
TEMPERATURE, -40 TO 200 deg. F
MATERIALS:
BODY, STAINLESS STEEL.
GUIDE COVERS, BEARING BRONZE
PISTONS, STAINLESS STEEL
FASTENERS, ALLOY STEEL, I.S.H.C.S.
ROD SEALS, LIP STYLE
PISTON HEAD SEAL, "O" RING

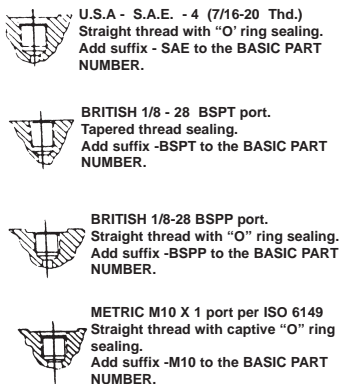
NOTES:

Dimensions are nominal in U.S. Customary units. 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. Angular relationship between PORTS 1 & 2 may be adjusted in increments of "G" degrees by removing cover bolts from one side, indexing the cover to a new location and re-torque to values shown in column "H".

BASIC PART NUMBER	O.D. A	BOLT CIRCLE B	ROD DIA. C	ROD THD. D	THD. E	THD. NO. F	TORQUE (IN. LB.) G	W.F. H	W.F. DEG. J	PISTON DIA. (IN.) X	NET. PISTON AREA (SQ. IN.)	
												NO. DEGS.
S-2369 - () - LS	3.000	2.375	0.875	1/2-20	1/4-28	4	90	75	0.688	22-1/2	1.750	1.804
S-2370 - () - LS	4.000	3.188	1.250	5/8-18	5/16-24	5	72	145	1.000	18	2.500	3.681
S-2371 - () - LS	5.000	4.188	1.500	3/4-16	3/8-24	6	60	265	1.250	15	3.500	7.854
S-2372 - () - LS	6.000	5.188	2.000	1-14	3/8-24	8	45	265	1.625	11-1/4	4.500	12.762

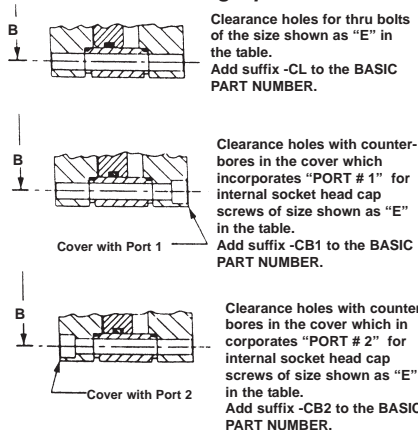
Nom. Force (lbs) = Pressure (psi) times Area (sq. in.)

International Port Options:



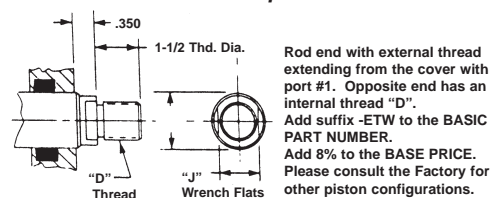
OPTIONAL PORTS ARE FURNISHED AT NO ADDED COST.

Mounting Options:



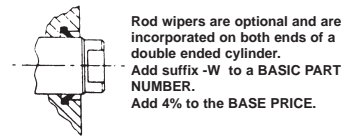
OPTIONAL MOUNTING IS SUPPLIED AT NO ADDED COST

Rod End Options:



Rod end with external thread extending from the cover with port #1. Opposite end has an internal thread "D". Add suffix -ETW to the BASIC PART NUMBER. Add 8% to the BASE PRICE. Please consult the Factory for other piston configurations.

Wiper Option:



Rod wipers are optional and are incorporated on both ends of a double ended cylinder. Add suffix -W to a BASIC PART NUMBER. Add 4% to the BASE PRICE.

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.

BASIC PART NUMBER

EXAMPLE = S2369 - 8 - LS
 Lip Seal Suffix
 Indicates Piston Travel
 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 = S2369 - 8 - LS - ETW
 Ext. Rod Thd. Option
 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-S2369 - 8 - LS
 BASIC PART NUMBER
 All Stainless Steel Prefix

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.

EXAMPLE = M-S2369 - 20 - LS
 Suffix
 Travel in Millimeters
 From the table
 Metric Prefix

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-S2369 - 8 - LS
 BASIC PART NUMBER
 High Temperature Seals

HOW TO ORDER SERVICE KITS.

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

EXAMPLE = S2369 - 8 - LS SK
 SERVICE KIT ONLY
 BASIC PART NUMBER

