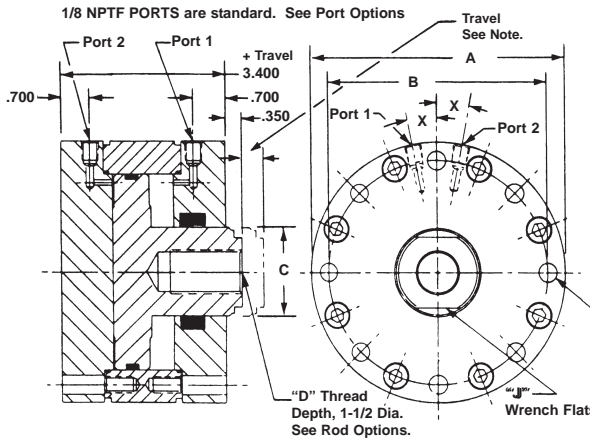


SHORT STROKE HYDRAULIC CYLINDERS, HI-ENERGY® SERIES 1500-LS-SP-FM

Double Acting-Single Ended Pistons-Side Ported-Either Face Mounted



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".

SPECIFICATIONS:

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

BASIC PART NUMBER	BOLT O.D. CIRCLE		ROD DIA. C	ROD THD. D	ROD THD. E	TORQUE NO. DEG. F G	TORQUE (IN. LB.) H	W.F. J	DEG. X	PISTON DIA. (IN.)	EXT. PISTON AREA (SQ. IN.)	RET. PISTON AREA (SQ. IN.)
	A	B										

S-2365 - () - LS	3.000	2.375	0.875	1/2-20	1/4-28	4	90	75	0.688	22-1/2	1.750	2.405	1.804
S-2366 - () - LS	4.000	3.188	1.250	5/8-18	5/16-24	5	72	145	1.000	18	2.500	4.908	3.681
S-2367 - () - LS	5.000	4.188	1.500	3/4-16	3/8-24	6	60	265	1.250	15	3.500	9.621	7.854
S-2368 - () - LS	6.000	5.188	2.000	1-14	3/8-24	8	45	265	1.625	11-1/4	4.500	15.904	12.762

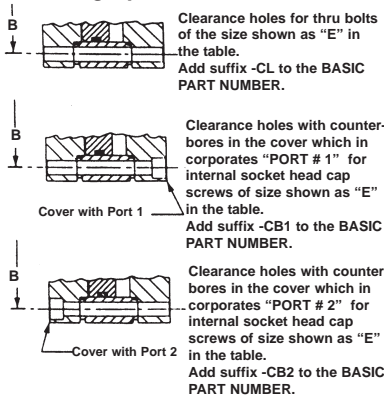
Nom. Force (lbs) = Pressure (psi) times Area (sq. in)

International Port Options:



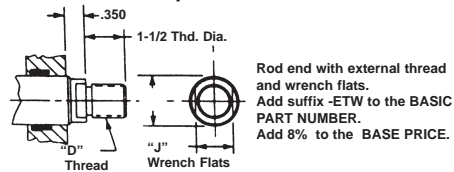
OPTIONAL PORTS ARE FURNISHED AT NO ADDED COST.

Mounting Options:

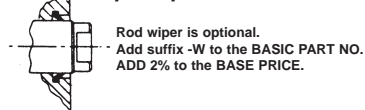


OPTIONAL MOUNTING IS SUPPLIED AT NO ADDED COST

Rod End Options:



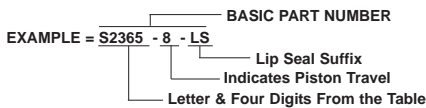
Wiper Option:



Ordering Information:

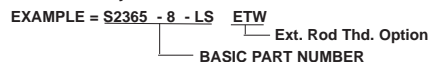
HOW TO ORDER BASIC CYLINDERS

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.



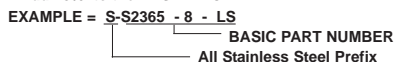
HOW TO ORDER CYLINDERS WITH OPTIONS:

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



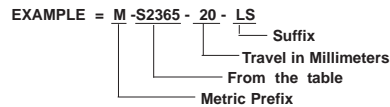
HOW TO ORDER ALL STAINLESS STEEL CYLINDERS:

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



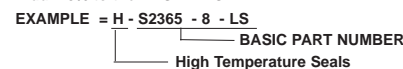
HOW TO ORDER METRIC CYLINDERS.

A BASIC PART NUMBER FOR METRIC CYLINDERS, consists if the letter "S" 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 deg. F

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"

