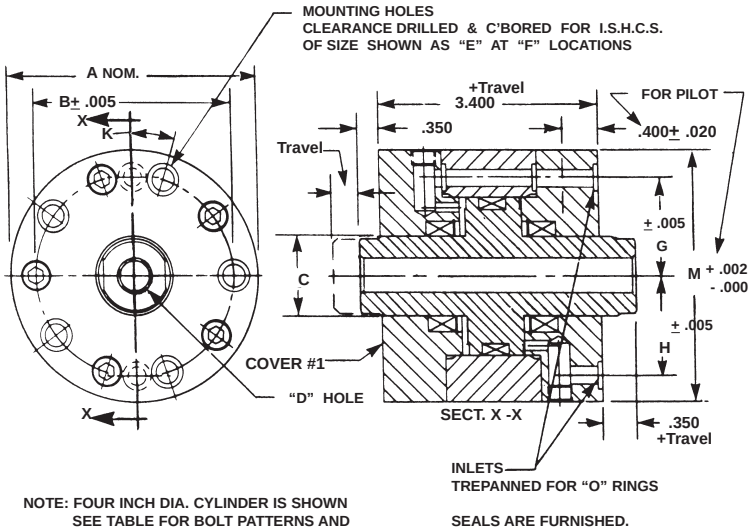
SHORT STROKE HYDRAULIC CYLINDERS - HI-ENERGY® SERIES 1500-LS-ET-PM

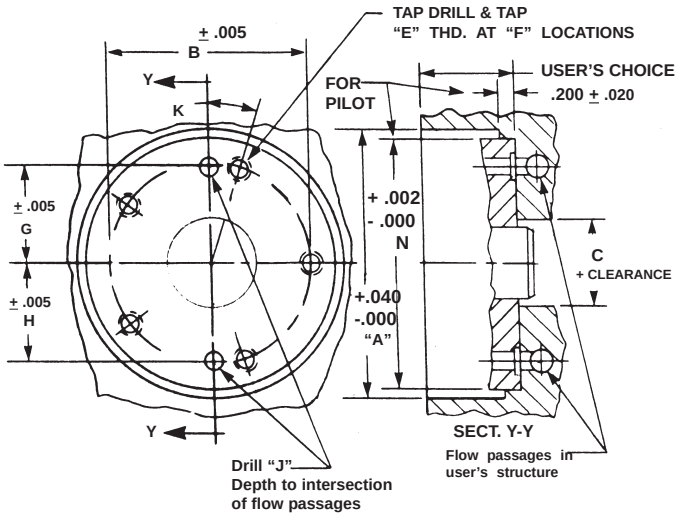
Double Acting-Double Ended Pistons With Thru Hole-End Trepan Ported-Pocket Mounted™

PRODUCT DETAILS:



NOTE: FOUR INCH DIA. CYLINDER IS SHOWN
SEE TABLE FOR BOLT PATTERNS AND
RELATED DETAILS FOR OTHER SIZES

SUGGESTED MOUNTING DETAILS:



BASIC PART NUMBER	O.D. A	B.C. B	ROD DIA. C	HOLE DIA. D	THD. E	NO. F	OFF SET G	OFF SET H	DRILL J	DEG. K	CYL. PILOT M	POCKET PILOT N	PISTON DIA. (IN.)	NET PISTON AREA (SQ.IN.)
S6180 -( )-LS	3.000	2.375	0.875	0.513	1/4-28	4	1.148	1.148	0.188	22-1/2	2.974	2.976	1.750	1.804
S6181 -( )-LS	4.000	3.188	1.250	0.656	5/16-24	5	1.571	1.571	0.281	18	3.974	3.976	2.500	3.681
S6182 -( )-LS	5.000	4.188	1.500	0.813	3/8-24	6	2.070	2.070	0.281	15	4.974	4.976	3.500	7.854
S6183 -( )-LS	6.000	5.188	2.000	1.063	3/8-24	8	2.571	2.571	0.281	11-1/4	5.974	5.976	4.500	12.762

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, STAINLESS STEEL
GUIDE COVERS, BEARING BRONZE
PISTONS, STAINLESS STEEL
FASTENERS, ALLOY STEEL, I.S.H.C.S.
ROD SEAL, LIP STYLE
PISTON HEAD SEAL, "O" RING

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.

EXAMPLE = S6180 - 8 - LS
- S6180 - BASIC PART NUMBER
- 8 - Indicates Piston Travel
- LS - Lip Seal Suffix
- 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 = S6180 - 8 - LS - R
- S6180 - 8 - LS - BASIC PART NUMBER.
- R - Rear Mounting Option.

HOW TO ORDER METRIC VERSIONS:
A BASIC PART NUMBER FOR METRIC CYLINDERS consists of 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.

EXAMPLE = M -S6180 - 20 - LS
- M - Metrix Prefix
- S6180 - From the table
- 20 - Travel in Millimeters.
- LS - Suffix

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-S6180 - 8 - LS
- S6180 - 8 - LS - BASIC PART NUMBER
- S - All Stainless Steel Prefix

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.

EXAMPLE = H - S6180 - 8 - LS
- S6180 - 8 - LS - BASIC PART NUMBER
- H - High Temperature Seals

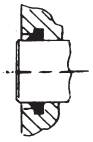
HOW TO ORDER SERVICE KITS.
Specify the complete part number followed by the suffix "SK".

EXAMPLE = S6180- 8 - LS - SK
- S6180- 8 - LS - BASIC Part Number
- SK - INDICATES SERVICE KIT

Rod End Option:

THRU HOLE PISTONS ARE NORMALLY SUPPLIED WITHOUT WRENCH FLATS. PLEASE CONSULT THE FACTORY IF WRENCH FLATS OR SOME SPECIAL MODIFICATION IS REQUIRED.

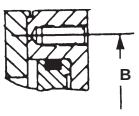
Wiper Option:



ROD WIPERS ARE OPTIONAL AND ARE INSTALLED ON BOTH ENDS.
ADD SUFFIX -W TO THE BASIC PART NO.
ADD 4% TO THE BASE PRICE.

Mounting Option:

"E" INTERNALLY THREADED HOLES AT "F" LOCATIONS IN THE REAR MOUNTING FACE. ADD SUFFIX -R TO THE BASIC PART NUMBER. THERE IS NO ADDED COST. INTENDED AS AN OPTION WHERE ATTACHMENT FROM THE REAR IS PREFERRED.



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.